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BIRTH AND DEATH STATISTICS BY HEALTH UNITS OF ALBERTA 1990

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BIRTH AND DEATH STATISTICS BY HEALTH UNITS OF ALBERTA 1990

MAY, 1992

HEALTH ECONOMICS AND STATISTICS
ALBERTA HEALTH

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GENERAL FRAMEWORK

This is the eighth annual report dealing with natality and mortality patterns in Alberta, observed at the health unit level. This volume contains birth, infant mortality, and death statistics and related indices for the year 1990 for Alberta, disaggregated by the 27 Health Units, to the extent that this is possible from Vital Statistics data. All the birth and death data used in the preparation of this report originated with Alberta Vital Statistics. It is hoped this information will prove useful to those involved in planning at both the health unit and provincial levels. The report is divided into four chapters, dealing with births, stillbirths and infant mortality, deaths in the male population, and deaths in the female population, respectively.

By considering births and deaths on a health unit basis, this report acknowledges the differences that exist from one area of the province to another. It is not always possible to offer an explanation as to why such variation exists, and no attempt has been made in this volume to provide one. Any explanation would need to be based on a comprehensive understanding of the various demographic and socio-economic characteristics of the health units and this knowledge is most readily available at the community level.

In data format this report closely resembles the seventh report published in March, 1991[1]. The emphasis is on natality and mortality of individual health units as observed in 1990.

A point of view has been adopted that the situation for Alberta is mainly relevant in so far as it provides a convenient standard for gauging patterns in this province. To that end, all age-standardized rates in this report have been standardized on Alberta population in 1990.

As each new demographic indicator is introduced it is accompanied by the corresponding background material or mathematical formula. Appendices A and B give the details of the demographic methods used.

CHAPTER CONTENTS

Each chapter begins with a description of the relevant population according to age groups, and follows with a series of tables and figures dealing with either births or deaths. The latter are organized according to a definite format. Within each chapter, pages are numbered consecutively. Tables and figures will be identified by referring to the corresponding page number.

BIRTH AND DEATH STATISTICS

A proper interpretation of the tables and figures in the pages that follow requires an understanding of some of the features of the Alberta Vital Statistics registration and reporting system. As each birth or death is registered, Alberta Vital Statistics assigns the vital event to a health unit on the basis of the registrant's place of usual residence, provided, of course, that the individual involved is an Albertan. This may or may not be the health unit where the vital event took place.

Alberta Vital Statistics also registers births and deaths involving residents of other provinces and countries, but these will not be considered here. By the same token, if a resident of Alberta gives birth or dies while outside this province, the registration will not be known to Alberta Vital Statistics. This results in a small degree of undercounting of vital events involving Albertans. However, this shortfall is not very large, approximately 481 Live births (1.1%), 5 Stillbirths (1.7%), 7 Infant deaths (2.2%) and 119 deaths (0.9%) in 1990 [2].

An exception to the above method of reporting has to do with residents of certain Indian reservations. Because of a special arrangement between the neighbouring health units and Alberta Vital Statistics, births and deaths identifiable as involving residents of these reservations are not assigned to the health unit in question, but rather given their own identifiers[3,4]. This makes it impossible to assign these vital events to a health unit without going back to the original registrations. Consequently, these statistics have been excluded from the present report. However, data from Alberta Vital Statistics indicate that the resulting undercounting is very small.

Alberta Vital Statistics publishes an annual report containing, along with other information, birth and death statistics. In theory, the entries in the 1990 report should coincide exactly with those given here. However, certain discrepancies can be found. For example, Alberta Vital Statistics sets the total number of deaths (Alberta residents only) at 13,835 which is to be compared to 13,716 (excluding Indian Reservations) computed from Table 3.3 and Table 4.3 in this report. This difference is partially due to the fact that in this report only those cases with specific Health Unit codes are included. Other similar discrepancies may occur because the Alberta Vital Statistics system is a dynamic one, with registrations being updated, late registrations being filed and similar data modifications made continuously. These differences are not very important for the computation of health indices used in the report. More specifically, the health unit related rates provided in this report are unlikely to change.

POPULATION ESTIMATES

Since this report is concerned with births and deaths it is necessary to have population estimates in order to compute rates.

In certain health units, up-to-date enumerations are available as they have been included in a municipal census. However, in order to hav a uniform method applicable to all health units, it was decided t estimate all 1990 health unit population by projecting the health un enumerations from the national census of 1986. The details of th method of projection are given in Appendix A.

SMALL AREA STATISTICS

The preceding sections dealt with some of the characteristics of th statistics that have been used in this report. A related consideratio has to do with the problem of small area statistics [5,6]. This refer to the difficulties, inherent in the analysis of statistics, arising out o relatively sparsely populated areas. Because of the small number involved, indices computed from such statistics tend to be subject t random fluctuation. In the context of the present report, difference that appear to exist between one health unit and the next may b partly due to chance variation .

CHAPTER 1

LIVE BIRTHS

1990

DESCRIPTION OF TABLES

Chapter 1 lists live births by Alberta health units for the year 1990.

Table 1.1 gives population estimates for females in the reproductive years (10-49) by five-year age groups, computed using the method described in Appendix A. Note that in this table the far right column gives the total number of females in each health unit and that the bottom row gives the health unit total for each age group. Also, in each table, "Alberta" is used to refer to health unit totals and actual provincial figures may slightly differ.

Table 1.2 is derived directly from Table 1.1, and gives the percent of the population in each health unit falling in each of the age groups in the range 10-49. Due to rounding the row totals may not sum up to 100.

Table 1.3 gives the number of live births by age group and health unit. Once again the total for each health unit and the grand total are provided.

Table 1.4 gives the age-specific live birth rates (per 1,000 females). These rates, sometimes called fertility rates, are defined by

$$\frac{\text{number of live births to women in age group}}{\text{number of women in age group}} \times 1{,}000 .$$

Although not shown, it is possible to assign confidence intervals to each of the rates in this table along the lines of Table 1.5. The method of computation is described in Appendix B. Because of the small numbers involved in some of the health units, the age-specific rates in this table would be expected to have rather wide confidence intervals. For this reason Table 1.4 should be interpreted with caution, especially when health units are being compared.

Table 1.5 has a number of indices related to the age-standardized live birth rates. The technique of age-standardization is discussed in Appendix B. In the present case, rates have been standardized to the 1990 Alberta female population, ages 10 to 49.. This means that each of the age-standardized rates, appearing in the first column of the table (where they are referred to simply as rates), is the live birth rate that would have been observed in each health unit in 1990 if the age distribution of women in the reproductive years in the health unit had been precisely the same as that observed in Alberta as a whole in the year 1990. This adjustment for differing age distributions (see Table 1.2) corrects for a potential source of artifactual error.

Associated with each of the (age-standardized) rates is a 95% confidence interval, with lower and upper limits, shown in columns two and three. For details of the method of computation see Appendix B. These numbers bound the observed rate from below and above, respectively, and thereby give a range of numbers which include the true underlying rate with a 95% confidence level. The observed rate is simply one manifestation of the true underlying rate, which cannot be known with 100% confidence because of random variation. This means that the true underlying rate could be as small as the lower bound or as large as the upper bound. Typically, the larger the population in question, the narrower will be the confidence interval. Because they indicate the reliability of the observed rate, the lower and upper confidence limits should always be considered along with the rate.

In the fourth column the rates (excluding that for Alberta) have been ranked from 1 to 27, with 1 for the largest rate and 27 for the smallest.

The fifth column gives ratios, computed by dividing the rate for each health unit by the Alberta rate. This gives a measure of the relative magnitude of the rate for each health unit compared to Alberta as a whole. The ranks and ratios are simply different ways of looking at the rates in column one.

The final column records the results of statistical testing for a difference between the rate for each of the health units and the rate for Alberta. The principles involved are described in Appendix B. If the health unit rate was found to be larger than that for Alberta, and statistically significantly so, then a "Yes" was entered next to the health unit. If the health unit was observed to be less than the Alberta rate, or larger but not statistically significantly larger, then a dot was entered. Another approach to statistical testing would have involved looking for significant departures of the health unit rates from the Alberta rate, whether higher or lower, and not just higher as in this report. However, this would have meant using a test with less sensitivity to detect higher than average health unit rates. Since these are the departures which tend to be of most interest (especially in the case of death rates), the present approach was adopted.

It must be reiterated that statistical significance is purely a property of numbers; as a concept it has no biological, demographic or social content. Consequently, even if two rates are determined to be different in a formal statistical sense, it is another matter as to whether or not they are different in a biological (or other) sense. This is a judgement to be made by the informed reader; it is outside the realm of statistical testing.

Figure 1.6 is a map of health units with the ranks from Table 1.5 inscribed. This provides a convenient method of searching for cluster of low or high ranks.

Tables 1.7 to 1.9 give the number of live births by birth order, where "first order" means the first live birth for the woman and similarly for higher orders of births.

Table 1.10 and Table 1.11 give a breakdown of live births by weight category.

Tables 1.12 to 1.14, and Figure 1.15 are similar in layout (and interpretation) to Tables 1.3, 1.4, 1.5 and Figure 1.6, respectively. Here attention is restricted to live births to women who were single (that is, not legally married) at the time of birth.

Table 1.16 is computed directly from Table 1.12 and gives the percent of the live births occurring in each age group.

Tables 1.17 and 1.18, and Figure 1.19 are formatted along the lines of Tables 1.3, Tables 1.5 and Figure 1.6, respectively. However, here a single age group, the 15-19 year olds, is considered in detail. Consequently, the age-specific and age-standardized rates coincide.

Tables 1.20 and 1.21, and Figure 1.22 consider the live births and birth rates to single teenage mothers.

NUMBER IN POPULATION

FEMALES IN CHILD BEARING AGE GROUPS (10-49), 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	1935	1949	1625	1877	2104	1963	1872	1413	14738
ALBERTA WEST CENTRAL	1630	1501	1442	1793	1925	1577	1282	1162	12312
ATHABASCA	1470	1387	1077	1199	1244	1133	1029	775	9314
BANFF NATIONAL PARK	155	387	704	479	386	344	246	168	2869
BARONS-EUREKA-WARNER	1767	1645	1175	1438	1539	1464	1296	1002	11326
BIG COUNTRY	415	463	380	416	461	427	393	272	3227
CALGARY	20318	22088	27703	36065	35891	30446	24792	17954	215257
CHINOOK	1692	1639	1146	1430	1515	1452	1268	981	11123
DRUMHELLER	1327	1339	976	1208	1393	1269	1067	796	9375
EDMONTON	16691	20084	28059	31899	29351	23256	19844	15962	185146
FOOTHILLS	1372	1199	800	1189	1518	1540	1376	867	9861
FORT MCMURRAY	1720	1583	1517	2169	2206	1969	1332	674	13170
HIGH LEVEL-FORT VERMILION	852	698	614	626	496	384	348	282	4300
JASPER NATIONAL PARK	89	135	301	245	189	129	101	82	1271
LEDUC-STRATHCONA	5114	4551	2699	3658	5287	5882	5060	3193	35444
LETHBRIDGE	2051	2161	2412	2677	2817	2499	2047	1608	18272
MINBURN-VERMILION	1512	1465	1393	1597	1680	1454	1317	911	11329
MOUNT VIEW	2389	2118	1627	2501	3262	3020	2302	1633	18852
NORTH EASTERN ALBERTA	2031	1927	1907	2060	1887	1682	1551	1086	14131
PEACE RIVER	1786	1536	1282	1548	1585	1375	1239	988	11339
RED DEER REGIONAL	4552	4523	4840	5714	5759	4936	4066	3214	37604
SOUTHEASTERN ALBERTA	2841	2743	2817	3319	3386	3025	2529	1862	22522
SOUTH PEACE	2762	2590	2563	3104	3173	2504	2184	1545	20425
STONY PLAIN-LAC STE. ANNE	3128	2381	1843	2689	3379	3230	2639	1685	20974
STURGEON	4380	3720	2797	3703	4688	4962	3967	2708	30925
VEGREVILLE	1058	1024	668	835	1105	1102	942	775	7509
WETOKA	1342	1348	1133	1403	1547	1424	1272	988	10457
ALBERTA	86379	88184	95500	116841	119773	104448	87361	64586	763072

AGE DISTRIBUTIONS (IN %)

FEMALES IN CHILD BEARING AGE GROUPS (10-49), 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	13.1	13.2	11.0	12.7	14.3	13.3	12.7	9.6
ALBERTA WEST CENTRAL	13.2	12.2	11.7	14.6	15.6	12.8	10.4	9.4
ATHABASCA	15.8	14.9	11.6	12.9	13.4	12.2	11.0	8.3
BANFF NATIONAL PARK	5.4	13.5	24.5	16.7	13.5	12.0	8.6	5.9
BARONS-EUREKA-WARNER	15.6	14.5	10.4	12.7	13.6	12.9	11.4	8.8
BIG COUNTRY	12.9	14.3	11.8	12.9	14.3	13.2	12.2	8.4
CALGARY	9.4	10.3	12.9	16.8	16.7	14.1	11.5	8.3
CHINOOK	15.2	14.7	10.3	12.9	13.6	13.1	11.4	8.8
DRUMHELLER	14.2	14.3	10.4	12.9	14.9	13.5	11.4	8.5
EDMONTON	9.0	10.8	15.2	17.2	15.9	12.6	10.7	8.6
FOOTHILLS	13.9	12.2	8.1	12.1	15.4	15.6	14.0	8.8
FORT MCMURRAY	13.1	12.0	11.5	16.5	16.8	15.0	10.1	5.1
HIGH LEVEL-FORT VERMILION	19.8	16.2	14.3	14.6	11.5	8.9	8.1	6.6
JASPER NATIONAL PARK	7.0	10.6	23.7	19.3	14.9	10.1	7.9	6.5
LEDUC-STRATHCONA	14.4	12.8	7.6	10.3	14.9	16.6	14.3	9.0
LETHBRIDGE	11.2	11.8	13.2	14.7	15.4	13.7	11.2	8.8
MINBURN-VERMILION	13.3	12.9	12.3	14.1	14.8	12.8	11.6	8.0
MOUNT VIEW	12.7	11.2	8.6	13.3	17.3	16.0	12.2	8.7
NORTH EASTERN ALBERTA	14.4	13.6	13.5	14.6	13.4	11.9	11.0	7.7
PEACE RIVER	15.8	13.5	11.3	13.7	14.0	12.1	10.9	8.7
RED DEER REGIONAL	12.1	12.0	12.9	15.2	15.3	13.1	10.8	8.5
SOUTHEASTERN ALBERTA	12.6	12.2	12.5	14.7	15.0	13.4	11.2	8.3
SOUTH PEACE	13.5	12.7	12.5	15.2	15.5	12.3	10.7	7.6
STONY PLAIN-LAC STE. ANNE	14.9	11.4	8.8	12.8	16.1	15.4	12.6	8.0
STURGEON	14.2	12.0	9.0	12.0	15.2	16.0	12.8	8.8
VEGREVILLE	14.1	13.6	8.9	11.1	14.7	14.7	12.5	10.3
WETOKA	12.8	12.9	10.8	13.4	14.8	13.6	12.2	9.4
ALBERTA	11.3	11.6	12.5	15.3	15.7	13.7	11.4	8.5

NUMBER OF LIVE BIRTHS, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	52	223	336	146	36	7	0	800
ALBERTA WEST CENTRAL	0	62	201	276	130	20	3	0	692
ATHABASCA	3	113	205	186	90	28	5	0	630
BANFF NATIONAL PARK	0	4	11	31	25	8	0	0	79
BARONS-EUREKA-WARNER	2	45	203	287	151	48	10	1	747
BIG COUNTRY	0	9	34	93	42	12	1	0	191
CALGARY	8	651	2093	4235	3717	1158	110	0	11972
CHINOOK	1	49	149	202	135	32	5	0	573
DRUMHELLER	1	39	120	225	123	21	5	0	534
EDMONTON	9	800	2329	3789	2672	875	95	4	10573
FOOTHILLS	0	31	100	195	158	42	4	0	530
FORT MCMURRAY	0	79	186	286	170	44	2	0	767
HIGH LEVEL-FORT VERMILION	0	78	155	126	79	27	8	0	473
JASPER NATIONAL PARK	0	2	9	23	16	2	0	0	52
LEDUC-STRATHCONA	0	86	276	640	464	149	14	0	1629
LETHBRIDGE	2	80	236	322	243	54	4	0	941
MINBURN-VERMILION	0	24	71	134	86	20	1	0	336
MOUNT VIEW	0	40	194	405	346	103	4	1	1093
NORTH EASTERN ALBERTA	1	113	273	352	172	42	6	0	959
PEACE RIVER	3	94	246	296	125	29	7	0	800
RED DEER REGIONAL	2	202	533	809	435	97	11	1	2090
SOUTHEASTERN ALBERTA	0	92	287	484	286	68	2	0	1219
SOUTH PEACE	1	121	271	341	207	47	12	1	1001
STONY PLAIN-LAC STE. ANNE	0	103	231	416	241	66	12	0	1069
STURGEON	1	85	320	577	346	104	17	2	1452
VEGREVILLE	0	25	74	127	80	23	0	0	329
WETOKA	1	43	136	222	133	50	4	0	589
ALBERTA	35	3122	9166	15415	10818	3205	349	10	42120

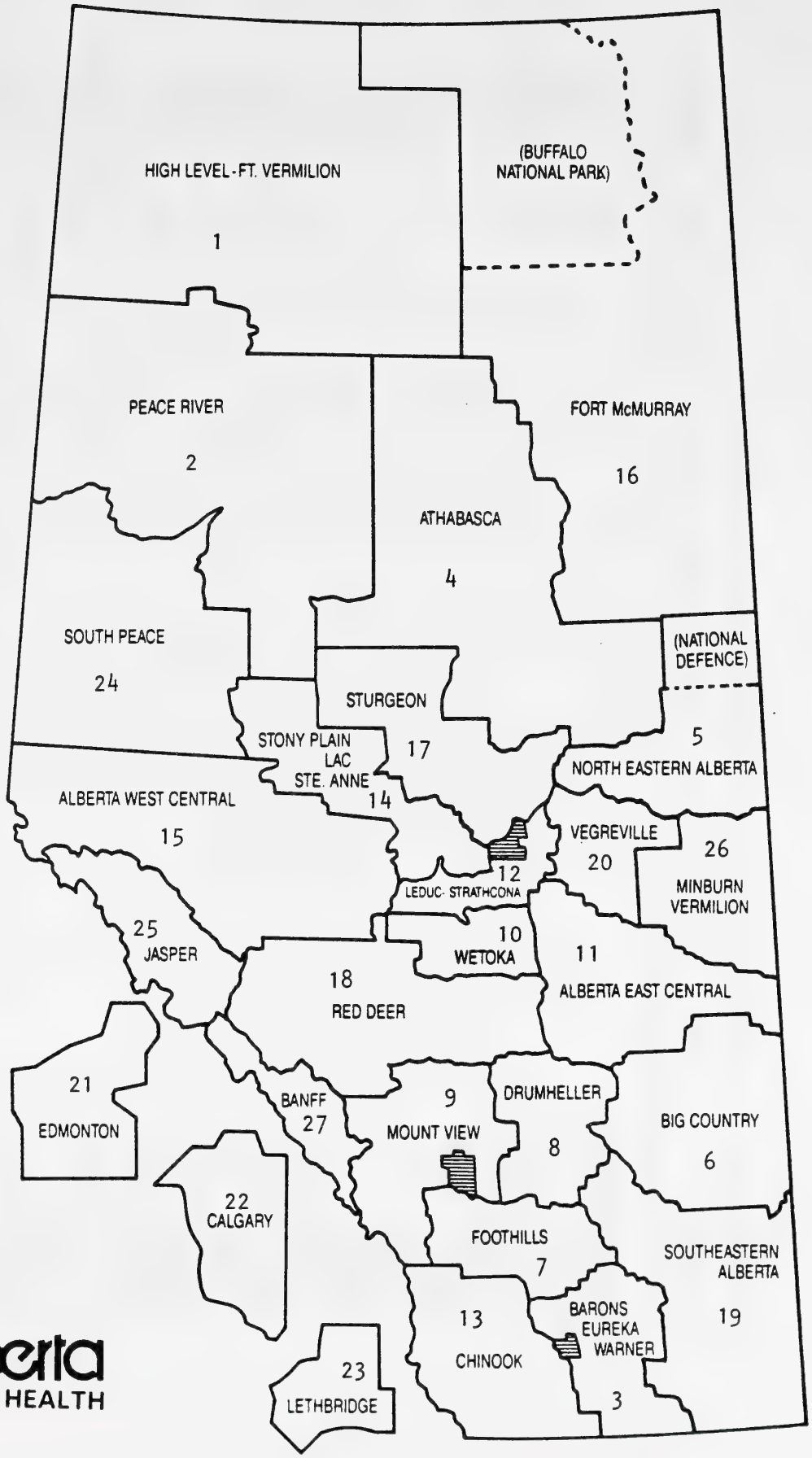
AGE-SPECIFIC LIVE BIRTH RATES (PER 1,000 FEMALES), 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	0.0	26.7	137.2	179.0	69.4	18.3	3.7	0.0
ALBERTA WEST CENTRAL	0.0	41.3	139.4	153.9	67.5	12.7	2.3	0.0
ATHABASCA	2.0	81.5	190.3	155.1	72.3	24.7	4.9	0.0
BANFF NATIONAL PARK	0.0	10.3	15.6	64.7	64.8	23.3	0.0	0.0
BARONS-EUREKA-WARNER	1.1	27.4	172.8	199.6	98.1	32.8	7.7	1.0
BIG COUNTRY	0.0	19.4	89.5	223.6	91.1	28.1	2.5	0.0
CALGARY	0.4	29.5	75.6	117.4	103.6	38.0	4.4	0.0
CHINOOK	0.6	29.9	130.0	141.3	89.1	22.0	3.9	0.0
DRUMHELLER	0.8	29.1	123.0	186.3	88.3	16.5	4.7	0.0
EDMONTON	0.5	39.8	83.0	118.8	91.0	37.6	4.8	0.3
FOOTHILLS	0.0	25.9	125.0	164.0	104.1	27.3	2.9	0.0
FORT MCMURRAY	0.0	49.9	122.6	131.9	77.1	22.3	1.5	0.0
HIGH LEVEL-FORT VERMILION	0.0	111.7	252.4	201.3	159.3	70.3	23.0	0.0
JASPER NATIONAL PARK	0.0	14.8	29.9	93.9	84.7	15.5	0.0	0.0
LEDUC-STRATHCONA	0.0	18.9	102.3	175.0	87.8	25.3	2.8	0.0
LETHBRIDGE	1.0	37.0	97.8	120.3	86.3	21.6	2.0	0.0
MINBURN-VERMILION	0.0	16.4	51.0	83.9	51.2	13.8	0.8	0.0
MOUNT VIEW	0.0	18.9	119.2	161.9	106.1	34.1	1.7	0.6
NORTH EASTERN ALBERTA	0.5	58.6	143.2	170.9	91.1	25.0	3.9	0.0
PEACE RIVER	1.7	61.2	191.9	191.2	78.9	21.1	5.6	0.0
RED DEER REGIONAL	0.4	44.7	110.1	141.6	75.5	19.7	2.7	0.3
SOUTHEASTERN ALBERTA	0.0	33.5	101.9	145.8	84.5	22.5	0.8	0.0
SOUTH PEACE	0.4	46.7	105.7	109.9	65.2	18.8	5.5	0.6
STONY PLAIN-LAC STE. ANNE	0.0	43.3	125.3	154.7	71.3	20.4	4.5	0.0
STURGEON	0.2	22.8	114.4	155.8	73.8	21.0	4.3	0.7
VEGREVILLE	0.0	24.4	110.8	152.1	72.4	20.9	0.0	0.0
WETOKA	0.7	31.9	120.0	158.2	86.0	35.1	3.1	0.0
ALBERTA	0.4	35.4	96.0	131.9	90.3	30.7	4.0	0.2

AGE-STANDARDIZED LIVE BIRTH RATES (PER 1,000 FEMALES), 1990

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	61.5	57.2	65.8	11	1.11	YES
ALBERTA WEST CENTRAL	58.4	54.0	62.7	15	1.06	.
ATHABASCA	72.5	66.8	78.2	4	1.31	YES
BANFF NATIONAL PARK	26.4	20.4	32.4	27	0.48	.
BARONS-EUREKA-WARNER	76.3	70.8	81.8	3	1.38	YES
BIG COUNTRY	66.1	56.7	75.5	6	1.20	YES
CALGARY	52.9	51.9	53.8	22	0.96	.
CHINOOK	58.9	54.0	63.7	13	1.07	.
DRUMHELLER	64.0	58.6	69.5	8	1.16	YES
EDMONTON	53.2	52.2	54.3	21	0.96	.
FOOTHILLS	64.1	58.6	69.7	7	1.16	YES
FORT MCMURRAY	56.6	52.6	60.6	16	1.03	.
HIGH LEVEL-FORT VERMILION	112.6	102.2	123.0	1	2.04	YES
JASPER NATIONAL PARK	35.2	25.4	45.1	25	0.64	.
LEDUC-STRATHCONA	59.3	56.4	62.3	12	1.07	YES
LETHBRIDGE	51.8	48.5	55.1	23	0.94	.
MINBURN-VERMILION	31.1	27.8	34.5	26	0.56	.
MOUNT VIEW	63.5	59.6	67.3	9	1.15	YES
NORTH EASTERN ALBERTA	69.1	64.7	73.5	5	1.25	YES
PEACE RIVER	76.5	71.2	81.8	2	1.39	YES
RED DEER REGIONAL	55.6	53.2	57.9	18	1.01	.
SOUTHEASTERN ALBERTA	55.4	52.3	58.5	19	1.00	.
SOUTH PEACE	49.0	45.9	52.0	24	0.89	.
STONY PLAIN-LAC STE. ANNE	58.9	55.3	62.5	14	1.07	YES
STURGEON	55.9	52.9	58.8	17	1.01	.
VEGREVILLE	54.2	48.3	60.1	20	0.98	.
WETOKA	61.7	56.7	66.7	10	1.12	YES
ALBERTA	55.2	54.7	55.7			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

LIVE BIRTHS, 1990

1.6

NUMBER OF FIRST ORDER LIVE BIRTHS, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	46	114	113	15	5	0	0	293
ALBERTA WEST CENTRAL	0	48	100	83	25	5	1	0	262
ATHABASCA	3	78	60	55	12	4	0	0	212
BANFF NATIONAL PARK	0	4	9	23	13	4	0	0	53
BARONS-EUREKA-WARNER	2	41	91	71	23	3	0	0	231
BIG COUNTRY	0	9	16	25	9	0	0	0	59
CALGARY	8	539	1198	1915	1166	276	21	0	5123
CHINOOK	1	40	78	59	20	1	0	0	199
DRUMHELLER	1	27	69	60	22	5	2	0	186
EDMONTON	9	634	1269	1594	814	171	15	1	4507
FOOTHILLS	0	31	58	66	32	4	0	0	191
FORT MCMURRAY	0	62	93	113	40	11	0	0	319
HIGH LEVEL-FORT VERMILION	0	63	54	17	8	0	0	0	142
JASPER NATIONAL PARK	0	2	7	11	5	1	0	0	26
LEDUC-STRATHCONA	0	75	160	225	89	26	3	0	578
LETHBRIDGE	2	67	137	142	62	8	0	0	418
MINBURN-VERMILION	0	19	42	40	16	4	0	0	121
MOUNT VIEW	0	33	106	148	79	16	1	1	384
NORTH EASTERN ALBERTA	1	87	122	108	29	4	0	0	351
PEACE RIVER	3	68	78	79	24	3	1	0	256
RED DEER REGIONAL	2	171	279	269	92	17	0	0	830
SOUTHEASTERN ALBERTA	0	79	157	160	57	14	0	0	467
SOUTH PEACE	1	98	135	117	48	13	2	0	414
STONY PLAIN-LAC STE. ANNE	0	89	104	138	46	9	3	0	389
STURGEON	1	59	154	216	69	14	2	0	515
VEGREVILLE	0	20	33	37	15	4	0	0	109
WETOKA	0	34	62	76	23	4	1	0	200
ALBERTA	34	2523	4785	5960	2853	626	52	2	16835

NUMBER OF SECOND ORDER LIVE BIRTHS, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	6	75	122	45	8	2	0	258
ALBERTA WEST CENTRAL	0	12	80	103	50	3	1	0	249
ATHABASCA	0	27	76	55	21	5	1	0	185
BANFF NATIONAL PARK	0	0	2	7	9	1	0	0	19
BARONS-EUREKA-WARNER	0	4	69	98	32	6	1	0	210
BIG COUNTRY	0	0	13	37	18	2	0	0	70
CALGARY	0	105	674	1599	1503	462	37	0	4380
CHINOOK	0	9	50	56	28	5	0	0	148
DRUMHELLER	0	9	39	80	30	1	1	0	160
EDMONTON	0	141	742	1382	1055	320	24	1	3665
FOOTHILLS	0	0	34	68	65	15	1	0	183
FORT MCMURRAY	0	14	67	127	65	13	0	0	286
HIGH LEVEL-FORT VERMILION	0	13	60	29	11	0	0	0	113
JASPER NATIONAL PARK	0	0	2	9	8	1	0	0	20
LEDUC-STRATHCONA	0	9	90	256	203	50	3	0	611
LETHBRIDGE	0	11	69	108	86	13	2	0	289
MINBURN-VERMILION	0	5	20	56	31	6	0	0	118
MOUNT VIEW	0	6	66	158	135	40	2	0	407
NORTH EASTERN ALBERTA	0	22	94	129	55	13	1	0	314
PEACE RIVER	0	20	89	108	31	10	1	0	259
RED DEER REGIONAL	0	28	189	319	169	33	3	0	741
SOUTHEASTERN ALBERTA	0	13	106	199	92	19	1	0	430
SOUTH PEACE	0	20	90	123	56	9	1	0	299
STONY PLAIN-LAC STE. ANNE	0	11	88	157	93	17	1	0	367
STURGEON	0	24	119	212	156	34	5	0	550
VEGREVILLE	0	5	31	54	27	8	0	0	125
WETOKA	1	7	50	66	46	6	0	0	176
ALBERTA	1	521	3084	5717	4120	1100	88	1	14632

NUMBER OF THIRD OR HIGHER ORDER LIVE BIRTHS, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	34	101	86	23	5	0	249
ALBERTA WEST CENTRAL	0	2	21	90	55	12	1	0	181
ATHABASCA	0	8	69	76	57	19	4	0	233
BANFF NATIONAL PARK	0	0	0	1	3	3	0	0	7
BARONS-EUREKA-WARNER	0	0	43	118	96	39	9	1	306
BIG COUNTRY	0	0	5	31	15	10	1	0	62
CALGARY	0	7	221	721	1048	420	52	0	2469
CHINOOK	0	0	21	87	87	26	5	0	226
DRUMHELLER	0	3	12	85	71	15	2	0	188
EDMONTON	0	25	318	813	803	384	56	2	2401
FOOTHILLS	0	0	8	61	61	23	3	0	156
FORT MCMURRAY	0	3	26	46	65	20	2	0	162
HIGH LEVEL-FORT VERMILION	0	2	41	80	60	27	8	0	218
JASPER NATIONAL PARK	0	0	0	3	3	0	0	0	6
LEDUC-STRATHCONA	0	2	26	159	172	73	8	0	440
LETHBRIDGE	0	2	30	72	95	33	2	0	234
MINBURN-VERMILION	0	0	9	38	39	10	1	0	97
MOUNT VIEW	0	1	22	99	132	47	1	0	302
NORTH EASTERN ALBERTA	0	4	57	115	88	25	5	0	294
PEACE RIVER	0	6	79	109	70	16	5	0	285
RED DEER REGIONAL	0	3	65	221	174	47	8	1	519
SOUTHEASTERN ALBERTA	0	0	24	125	137	35	1	0	322
SOUTH PEACE	0	3	46	101	103	25	9	1	288
STONY PLAIN-LAC STE. ANNE	0	3	39	121	102	40	8	0	313
STURGEON	0	2	47	149	121	56	10	2	387
VEGREVILLE	0	0	10	36	38	11	0	0	95
WETOKA	0	2	24	80	64	40	3	0	213
ALBERTA	0	78	1297	3738	3845	1479	209	7	10653

NUMBER OF LIVE BIRTHS IN WEIGHT (GRAMS) CATEGORIES, 1990

HEALTH UNIT	<1000	1000-1499	1500-1999	2000-2499	2500-2999	3000-4499	4500+	TOTAL
ALBERTA EAST CENTRAL	0	3	9	23	105	642	18	800
ALBERTA WEST CENTRAL	1	5	6	28	96	545	11	692
ATHABASCA	2	3	4	25	76	505	15	630
BANFF NATIONAL PARK	4	1	2	5	15	52	0	79
BARONS-EUREKA-WARNER	0	6	7	30	112	578	14	747
BIG COUNTRY	0	0	5	5	26	152	3	191
CALGARY	73	70	156	500	2065	8950	158	11972
CHINOOK	2	3	9	27	89	433	10	573
DRUMHELLER	3	4	6	19	77	409	16	534
EDMONTON	42	59	126	401	1775	7998	172	10573
FOOTHILLS	1	3	6	25	89	397	9	530
FORT MCMURRAY	2	3	8	23	98	623	10	767
HIGH LEVEL-FORT VERMILION	3	1	6	19	58	376	10	473
JASPER NATIONAL PARK	1	1	0	0	11	38	1	52
LEDUC-STRATHCONA	2	2	22	56	234	1286	27	1629
LETHBRIDGE	4	3	14	43	182	682	13	941
MINBURN-VERMILION	1	4	7	8	37	271	8	336
MOUNT VIEW	6	2	11	53	173	833	15	1093
NORTH EASTERN ALBERTA	1	3	12	32	131	751	29	959
PEACE RIVER	2	2	7	26	119	621	23	800
RED DEER REGIONAL	4	10	21	76	329	1624	26	2090
SOUTHEASTERN ALBERTA	5	8	9	36	193	949	19	1219
SOUTH PEACE	3	6	11	29	141	796	15	1001
STONY PLAIN-LAC STE. ANNE	2	3	12	42	183	809	18	1069
STURGEON	5	3	8	47	218	1142	29	1452
VEGREVILLE	0	0	4	10	47	264	4	329
WETOKA	3	2	9	18	82	458	17	589
ALBERTA	172	210	497	1606	6761	32184	690	42120

PERCENT OF LIVE BIRTHS IN WEIGHT (GRAMS) CATEGORIES, 1990

HEALTH UNIT	<1000	1000-1499	1500-1999	2000-2499	2500-2999	3000-4499	4500+
ALBERTA EAST CENTRAL	0.0	0.4	1.1	2.9	13.1	80.3	2.3
ALBERTA WEST CENTRAL	0.1	0.7	0.9	4.0	13.9	78.8	1.6
ATHABASCA	0.3	0.5	0.6	4.0	12.1	80.2	2.4
BANFF NATIONAL PARK	5.1	1.3	2.5	6.3	19.0	65.8	0.0
BARONS-EUREKA-WARNER	0.0	0.8	0.9	4.0	15.0	77.4	1.9
BIG COUNTRY	0.0	0.0	2.6	2.6	13.6	79.6	1.6
CALGARY	0.6	0.6	1.3	4.2	17.2	74.8	1.3
CHINOOK	0.3	0.5	1.6	4.7	15.5	75.6	1.7
DRUMHELLER	0.6	0.7	1.1	3.6	14.4	76.6	3.0
EDMONTON	0.4	0.6	1.2	3.8	16.8	75.6	1.6
FOOTHILLS	0.2	0.6	1.1	4.7	16.8	74.9	1.7
FORT MCMURRAY	0.3	0.4	1.0	3.0	12.8	81.2	1.3
HIGH LEVEL-FORT VERMILION	0.6	0.2	1.3	4.0	12.3	79.5	2.1
JASPER NATIONAL PARK	1.9	1.9	0.0	0.0	21.2	73.1	1.9
LEDUC-STRATHCONA	0.1	0.1	1.4	3.4	14.4	78.9	1.7
LETHBRIDGE	0.4	0.3	1.5	4.6	19.3	72.5	1.4
MINBURN-VERMILION	0.3	1.2	2.1	2.4	11.0	80.7	2.4
MOUNT VIEW	0.5	0.2	1.0	4.8	15.8	76.2	1.4
NORTH EASTERN ALBERTA	0.1	0.3	1.3	3.3	13.7	78.3	3.0
PEACE RIVER	0.3	0.3	0.9	3.3	14.9	77.6	2.9
RED DEER REGIONAL	0.2	0.5	1.0	3.6	15.7	77.7	1.2
SOUTHEASTERN ALBERTA	0.4	0.7	0.7	3.0	15.8	77.9	1.6
SOUTH PEACE	0.3	0.6	1.1	2.9	14.1	79.5	1.5
STONY PLAIN-LAC STE. ANNE	0.2	0.3	1.1	3.9	17.1	75.7	1.7
STURGEON	0.3	0.2	0.6	3.2	15.0	78.7	2.0
VEGREVILLE	0.0	0.0	1.2	3.0	14.3	80.2	1.2
WETOKA	0.5	0.3	1.5	3.1	13.9	77.8	2.9
ALBERTA	0.4	0.5	1.2	3.8	16.1	76.4	1.6

NUMBER OF LIVE BIRTHS TO SINGLE MOTHERS, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	35	39	14	3	1	0	0	92
ALBERTA WEST CENTRAL	0	49	59	30	5	2	0	0	145
ATHABASCA	2	97	109	48	14	2	2	0	274
BANFF NATIONAL PARK	0	4	5	4	2	0	0	0	15
BARONS-EUREKA-WARNER	2	31	32	8	4	2	0	0	79
BIG COUNTRY	0	6	4	1	1	0	0	0	12
CALGARY	8	526	703	429	174	41	2	0	1883
CHINOOK	1	37	43	25	10	1	2	0	119
DRUMHELLER	1	33	28	23	13	1	1	0	100
EDMONTON	9	652	983	512	174	56	7	1	2394
FOOTHILLS	0	24	28	13	5	4	0	0	74
FORT MCMURRAY	0	72	98	60	15	1	0	0	246
HIGH LEVEL-FORT VERMILION	0	62	65	45	12	6	2	0	192
JASPER NATIONAL PARK	0	2	4	5	2	0	0	0	13
LEDUC-STRATHCONA	0	69	67	46	8	4	1	0	195
LETHBRIDGE	2	64	73	31	13	1	0	0	184
MINBURN-VERMILION	0	18	16	2	5	1	0	0	42
MOUNT VIEW	0	33	50	26	13	2	0	0	124
NORTH EASTERN ALBERTA	1	92	112	42	15	5	0	0	267
PEACE RIVER	3	76	113	49	15	7	0	0	263
RED DEER REGIONAL	2	165	170	81	22	10	0	0	450
SOUTHEASTERN ALBERTA	0	75	70	27	10	2	0	0	184
SOUTH PEACE	1	101	100	27	18	3	2	1	253
STONY PLAIN-LAC STE. ANNE	0	89	71	41	12	5	0	0	218
STURGEON	1	62	85	45	12	3	0	0	208
VEGREVILLE	0	20	14	10	5	1	0	0	50
WETOKA	1	36	42	24	5	3	0	0	111
ALBERTA	34	2530	3183	1668	587	164	19	2	8187

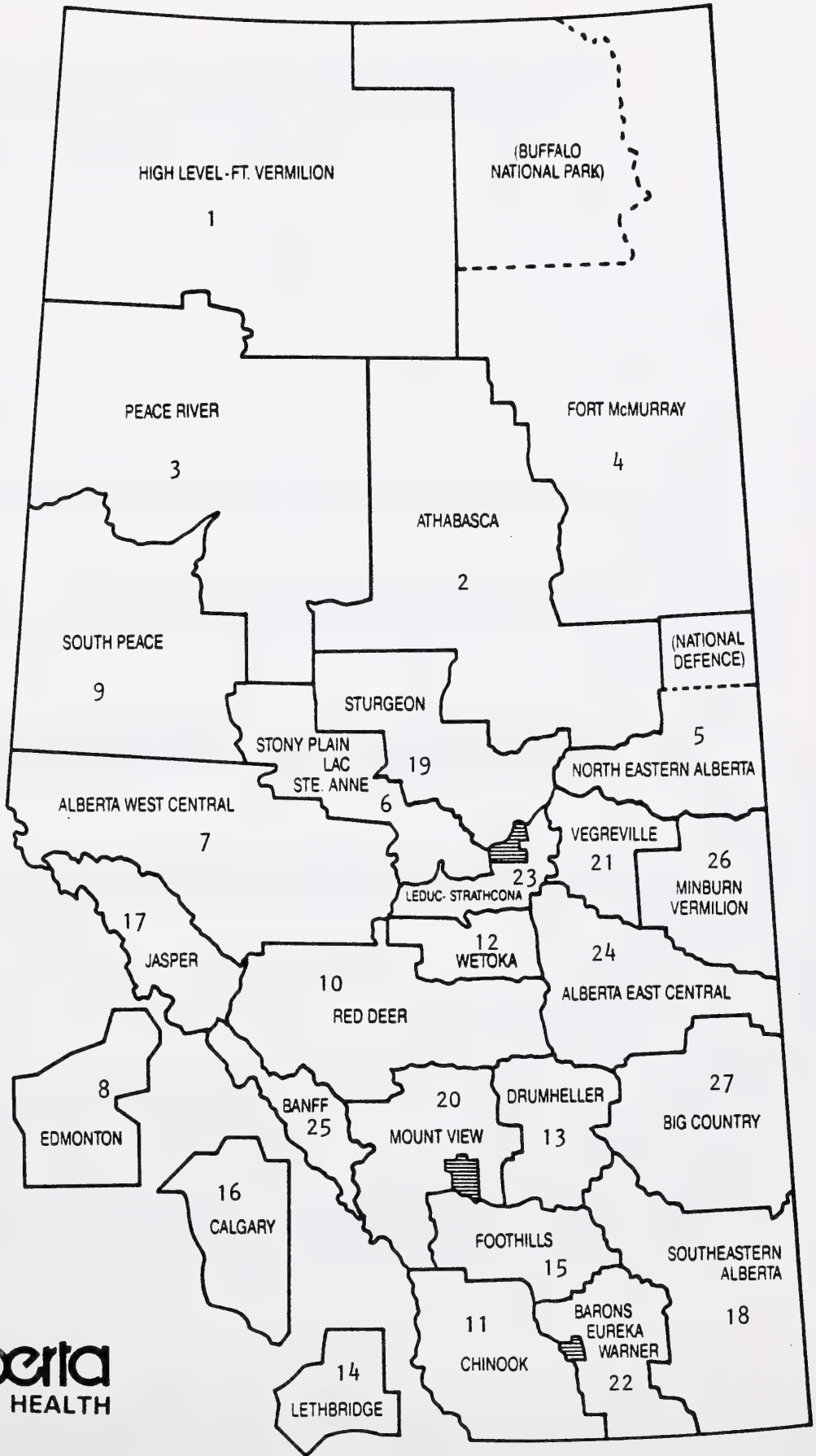
AGE-SPECIFIC LIVE BIRTH RATES (PER 1,000 SINGLE MOTHERS), 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	0.0	18.0	24.0	7.5	1.4	0.5	0.0	0.0
ALBERTA WEST CENTRAL	0.0	32.6	40.9	16.7	2.6	1.3	0.0	0.0
ATHABASCA	1.4	69.9	101.2	40.0	11.3	1.8	1.9	0.0
BANFF NATIONAL PARK	0.0	10.3	7.1	8.4	5.2	0.0	0.0	0.0
BARONS-EUREKA-WARNER	1.1	18.8	27.2	5.6	2.6	1.4	0.0	0.0
BIG COUNTRY	0.0	13.0	10.5	2.4	2.2	0.0	0.0	0.0
CALGARY	0.4	23.8	25.4	11.9	4.8	1.3	0.1	0.0
CHINOOK	0.6	22.6	37.5	17.5	6.6	0.7	1.6	0.0
DRUMHELLER	0.8	24.6	28.7	19.0	9.3	0.8	0.9	0.0
EDMONTON	0.5	32.5	35.0	16.1	5.9	2.4	0.4	0.1
FOOTHILLS	0.0	20.0	35.0	10.9	3.3	2.6	0.0	0.0
FORT MCMURRAY	0.0	45.5	64.6	27.7	6.8	0.5	0.0	0.0
HIGH LEVEL-FORT VERMILION	0.0	88.8	105.9	71.9	24.2	15.6	5.7	0.0
JASPER NATIONAL PARK	0.0	14.8	13.3	20.4	10.6	0.0	0.0	0.0
LEDUC-STRATHCONA	0.0	15.2	24.8	12.6	1.5	0.7	0.2	0.0
LETHBRIDGE	1.0	29.6	30.3	11.6	4.6	0.4	0.0	0.0
MINBURN-VERMILION	0.0	12.3	11.5	1.3	3.0	0.7	0.0	0.0
MOUNT VIEW	0.0	15.6	30.7	10.4	4.0	0.7	0.0	0.0
NORTH EASTERN ALBERTA	0.5	47.7	58.7	20.4	7.9	3.0	0.0	0.0
PEACE RIVER	1.7	49.5	88.1	31.7	9.5	5.1	0.0	0.0
RED DEER REGIONAL	0.4	36.5	35.1	14.2	3.8	2.0	0.0	0.0
SOUTHEASTERN ALBERTA	0.0	27.3	24.8	8.1	3.0	0.7	0.0	0.0
SOUTH PEACE	0.4	39.0	39.0	8.7	5.7	1.2	0.9	0.0
STONY PLAIN-LAC STE. ANNE	0.0	37.4	38.5	15.2	3.6	1.5	0.0	0.0
STURGEON	0.2	16.7	30.4	12.2	2.6	0.6	0.0	0.0
VEGREVILLE	0.0	19.5	21.0	12.0	4.5	0.9	0.0	0.0
WETOKA	0.7	26.7	37.1	17.1	3.2	2.1	0.0	0.0
ALBERTA	0.4	28.7	33.3	14.3	4.9	1.6	0.2	0.0

AGE-STANDARDIZED LIVE BIRTH RATES (PER 1,000 SINGLE MOTHERS), 1990

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	6.5	5.2	7.9	24	0.61	.
ALBERTA WEST CENTRAL	12.0	10.1	14.0	7	1.12	.
ATHABASCA	29.3	25.7	32.8	2	2.74	YES
BANFF NATIONAL PARK	4.2	2.0	6.4	25	0.39	.
BARONS-EUREKA-WARNER	7.2	5.6	8.8	22	0.67	.
BIG COUNTRY	3.5	1.5	5.5	27	0.33	.
CALGARY	8.7	8.4	9.1	16	0.81	.
CHINOOK	11.4	9.3	13.4	11	1.07	.
DRUMHELLER	11.1	8.9	13.3	13	1.04	.
EDMONTON	12.0	11.5	12.4	8	1.12	YES
FOOTHILLS	9.2	7.1	11.4	15	0.86	.
FORT MCMURRAY	18.7	16.4	21.1	4	1.75	YES
HIGH LEVEL-FORT VERMILION	41.1	35.1	47.1	1	3.84	YES
JASPER NATIONAL PARK	8.2	3.6	12.8	17	0.77	.
LEDUC-STRATHCONA	7.1	6.1	8.2	23	0.66	.
LETHBRIDGE	9.9	8.4	11.3	14	0.93	.
MINBURN-VERMILION	3.6	2.5	4.7	26	0.34	.
MOUNT VIEW	8.0	6.5	9.4	20	0.75	.
NORTH EASTERN ALBERTA	17.7	15.6	19.8	5	1.65	YES
PEACE RIVER	24.0	21.1	26.9	3	2.24	YES
RED DEER REGIONAL	11.7	10.6	12.8	10	1.09	YES
SOUTHEASTERN ALBERTA	8.1	6.9	9.2	18	0.76	.
SOUTH PEACE	12.0	10.5	13.5	9	1.12	.
STONY PLAIN-LAC STE. ANNE	12.2	10.6	13.9	6	1.14	YES
STURGEON	8.1	7.0	9.2	19	0.76	.
VEGREVILLE	7.5	5.4	9.7	21	0.70	.
WETOKA	11.2	9.1	13.3	12	1.05	.
ALBERTA	10.7	10.5	11.0			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

LIVE BIRTHS TO SINGLE MOTHERS, 1990

1.15

PERCENT OF LIVE BIRTHS TO SINGLE MOTHERS, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0.0	67.3	17.5	4.2	2.1	2.8	0.0	0.0	11.5
ALBERTA WEST CENTRAL	0.0	79.0	29.4	10.9	3.8	10.0	0.0	0.0	21.0
ATHABASCA	66.7	85.8	53.2	25.8	15.6	7.1	40.0	0.0	43.5
BANFF NATIONAL PARK	0.0	100.0	45.5	12.9	8.0	0.0	0.0	0.0	19.0
BARONS-EUREKA-WARNER	100.0	68.9	15.8	2.8	2.6	4.2	0.0	0.0	10.6
BIG COUNTRY	0.0	66.7	11.8	1.1	2.4	0.0	0.0	0.0	6.3
CALGARY	100.0	80.8	33.6	10.1	4.7	3.5	1.8	0.0	15.7
CHINOOK	100.0	75.5	28.9	12.4	7.4	3.1	40.0	0.0	20.8
DRUMHELLER	100.0	84.6	23.3	10.2	10.6	4.8	20.0	0.0	18.7
EDMONTON	100.0	81.5	42.2	13.5	6.5	6.4	7.4	25.0	22.6
FOOTHILLS	0.0	77.4	28.0	6.7	3.2	9.5	0.0	0.0	14.0
FORT MCMURRAY	0.0	91.1	52.7	21.0	8.8	2.3	0.0	0.0	32.1
HIGH LEVEL-FORT VERMILION	0.0	79.5	41.9	35.7	15.2	22.2	25.0	0.0	40.6
JASPER NATIONAL PARK	0.0	100.0	44.4	21.7	12.5	0.0	0.0	0.0	25.0
LEDUC-STRATHCONA	0.0	80.2	24.3	7.2	1.7	2.7	7.1	0.0	12.0
LETHBRIDGE	100.0	80.0	30.9	9.6	5.3	1.9	0.0	0.0	19.6
MINBURN-VERMILION	0.0	75.0	22.5	1.5	5.8	5.0	0.0	0.0	12.5
MOUNT VIEW	0.0	82.5	25.8	6.4	3.8	1.9	0.0	0.0	11.3
NORTH EASTERN ALBERTA	100.0	81.4	41.0	11.9	8.7	11.9	0.0	0.0	27.8
PEACE RIVER	100.0	80.9	45.9	16.6	12.0	24.1	0.0	0.0	32.9
RED DEER REGIONAL	100.0	81.7	31.9	10.0	5.1	10.3	0.0	0.0	21.5
SOUTHEASTERN ALBERTA	0.0	81.5	24.4	5.6	3.5	2.9	0.0	0.0	15.1
SOUTH PEACE	100.0	83.5	36.9	7.9	8.7	6.4	16.7	100.0	25.3
STONY PLAIN-LAC STE. ANNE	0.0	86.4	30.7	9.9	5.0	7.6	0.0	0.0	20.4
STURGEON	100.0	72.9	26.6	7.8	3.5	2.9	0.0	0.0	14.3
VEGREVILLE	0.0	80.0	18.9	7.9	6.3	4.3	0.0	0.0	15.2
WETOKA	100.0	83.7	30.9	10.8	3.8	6.0	0.0	0.0	18.8
ALBERTA	97.1	81.0	34.7	10.8	5.4	5.1	5.4	20.0	19.4

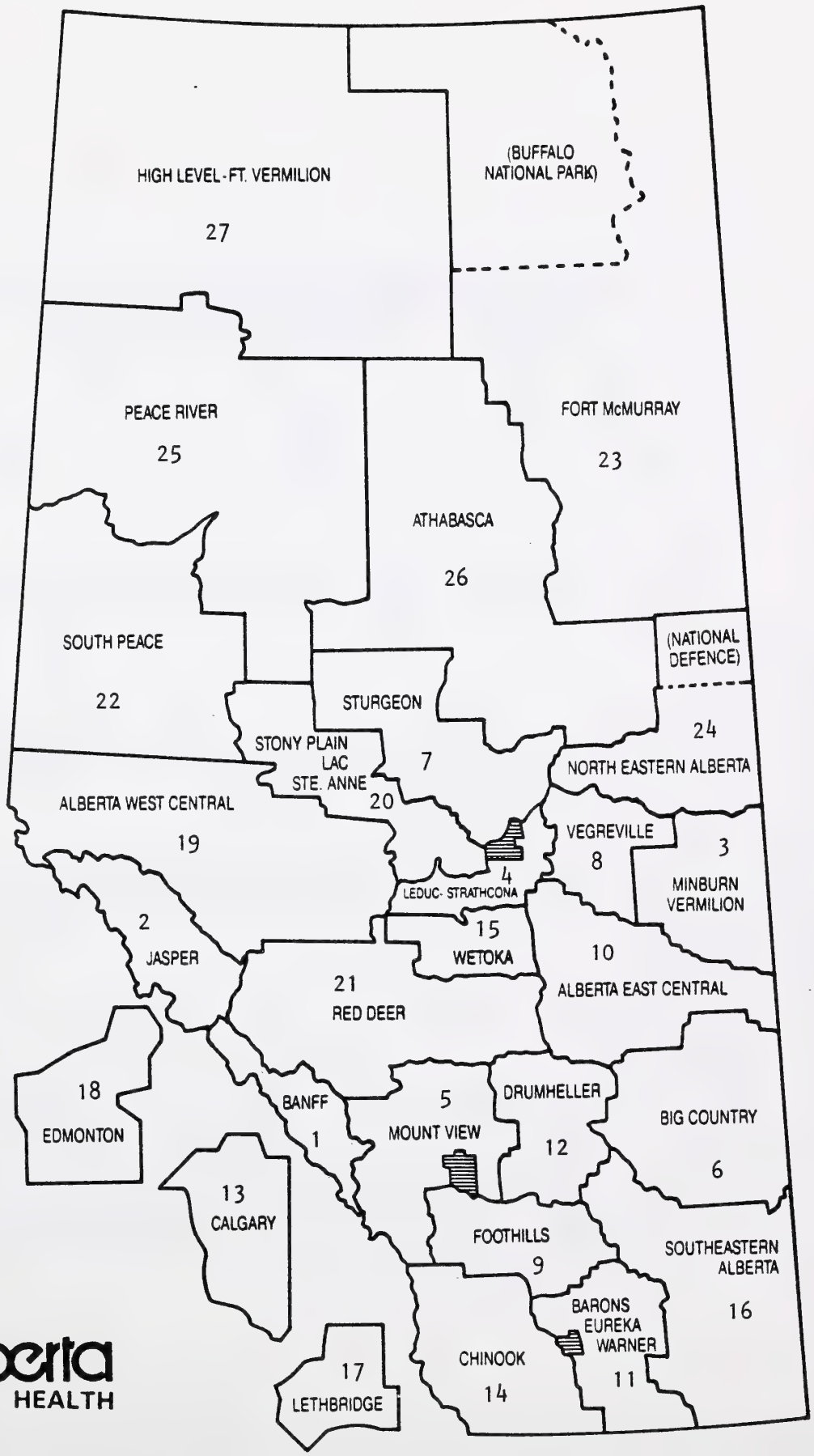
NUMBER OF TEENAGE (15-19) LIVE BIRTHS, 1990

HEALTH UNIT	NUMBER
ALBERTA EAST CENTRAL	52
ALBERTA WEST CENTRAL	62
ATHABASCA	113
BANFF NATIONAL PARK	4
BARONS-EUREKA-WARNER	45
BIG COUNTRY	9
CALGARY	651
CHINOOK	49
DRUMHELLER	39
EDMONTON	800
FOOTHILLS	31
FORT MCMURRAY	79
HIGH LEVEL-FORT VERMILION	78
JASPER NATIONAL PARK	2
LEDUC-STRATHCONA	86
LETHBRIDGE	80
MINBURN-VERMILION	24
MOUNT VIEW	40
NORTH EASTERN ALBERTA	113
PEACE RIVER	94
RED DEER REGIONAL	202
SOUTHEASTERN ALBERTA	92
SOUTH PEACE	121
STONY PLAIN-LAC STE. ANNE	103
STURGEON	85
VEGREVILLE	25
WETOKA	43
ALBERTA	3122

TEENAGE (15-19) LIVE BIRTHS RATES (PER 1,000 FEMALES), 1990

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	26.7	19.4	33.9	10	0.82	.
ALBERTA WEST CENTRAL	41.3	31.0	51.6	19	1.28	.
ATHABASCA	81.5	66.4	96.5	26	2.52	YES
BANFF NATIONAL PARK	10.3	0.2	20.5	1	0.32	.
BARONS-EUREKA-WARNER	27.4	19.4	35.3	11	0.85	.
BIG COUNTRY	19.4	6.7	32.1	6	0.60	.
CALGARY	29.5	27.2	31.7	13	0.91	.
CHINOOK	29.9	21.5	38.3	14	0.92	.
DRUMHELLER	29.1	20.0	38.3	12	0.90	.
EDMONTON	39.8	37.1	42.6	18	1.23	YES
FOOTHILLS	25.9	16.8	35.0	9	0.80	.
FORT MCMURRAY	49.9	38.9	60.9	23	1.54	YES
HIGH LEVEL-FORT VERMILION	111.7	86.9	136.5	27	3.45	YES
JASPER NATIONAL PARK	14.8	-5.7	35.3	2	0.46	.
LEDUC-STRATHCONA	18.9	14.9	22.9	4	0.58	.
LETHBRIDGE	37.0	28.9	45.1	17	1.14	YES
MINBURN-VERMILION	16.4	9.8	22.9	3	0.51	.
MOUNT VIEW	18.9	13.0	24.7	5	0.58	.
NORTH EASTERN ALBERTA	58.6	47.8	69.5	24	1.81	YES
PEACE RIVER	61.2	48.8	73.6	25	1.89	YES
RED DEER REGIONAL	44.7	38.5	50.8	21	1.38	YES
SOUTHEASTERN ALBERTA	33.5	26.7	40.4	16	1.04	.
SOUTH PEACE	46.7	38.4	55.0	22	1.44	YES
STONY PLAIN-LAC STE. ANNE	43.3	34.9	51.6	20	1.34	YES
STURGEON	22.8	18.0	27.7	7	0.71	.
VEGREVILLE	24.4	14.8	34.0	8	0.75	.
WETOKA	31.9	22.4	41.4	15	0.99	.
ALBERTA	35.4	34.2	36.6			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

TEEN LIVE BIRTHS, 1990

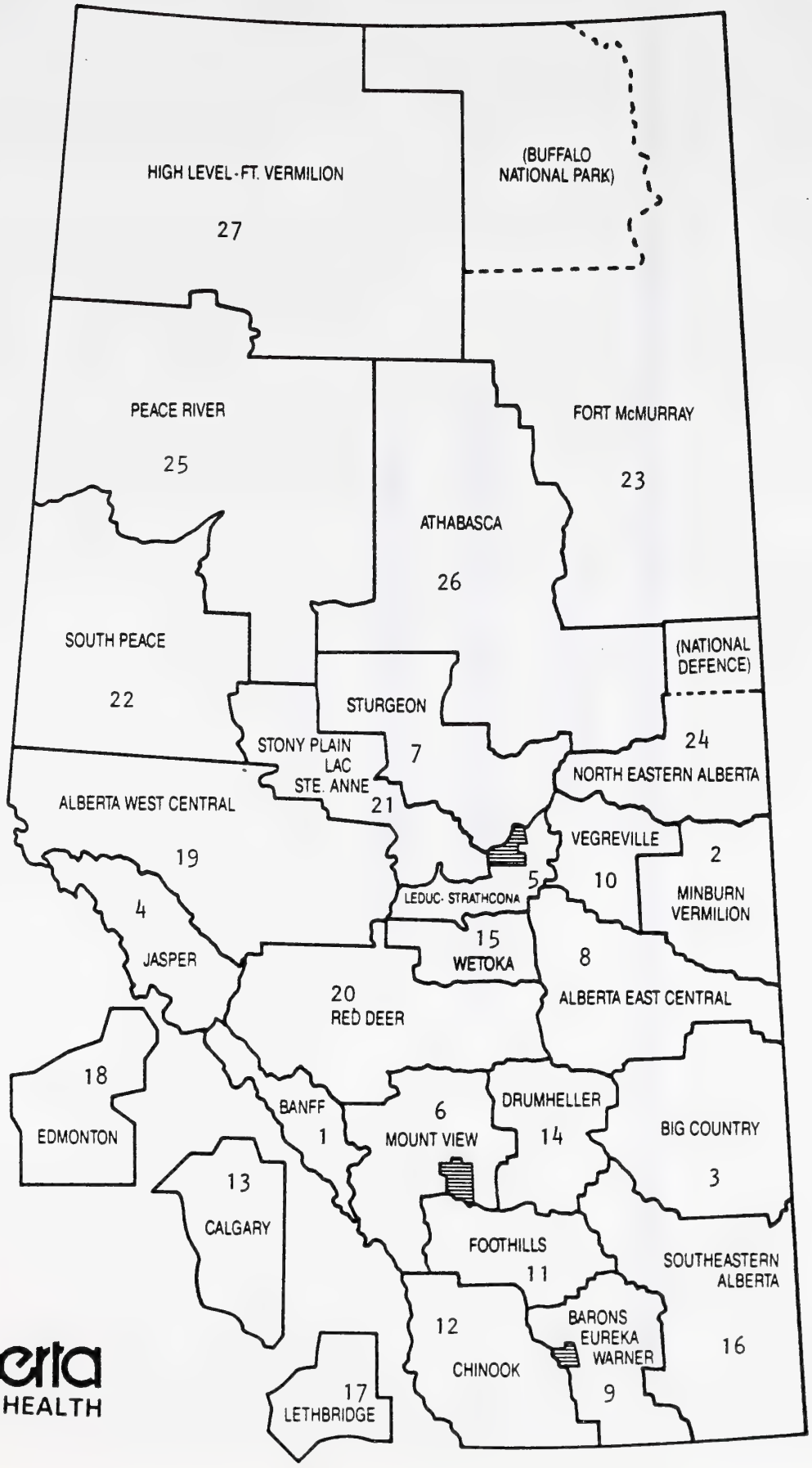
NUMBER OF LIVE BIRTHS TO SINGLE TEENAGE (15-19) MOTHERS, 1990

HEALTH UNIT	NUMBER
ALBERTA EAST CENTRAL	35
ALBERTA WEST CENTRAL	49
ATHABASCA	97
BANFF NATIONAL PARK	4
BARONS-EUREKA-WARNER	31
BIG COUNTRY	6
CALGARY	526
CHINOOK	37
DRUMHELLER	33
EDMONTON	652
FOOTHILLS	24
FORT MCMURRAY	72
HIGH LEVEL-FORT VERMILION	62
JASPER NATIONAL PARK	2
LEDUC-STRATHCONA	69
LETHBRIDGE	64
MINBURN-VERMILION	18
MOUNT VIEW	33
NORTH EASTERN ALBERTA	92
PEACE RIVER	76
RED DEER REGIONAL	165
SOUTHEASTERN ALBERTA	75
SOUTH PEACE	101
STONY PLAIN-LAC STE. ANNE	89
STURGEON	62
VEGREVILLE	20
WETOKA	36
ALBERTA	2530

LIVE BIRTH RATES (PER 1,000 SINGLE TEENAGE MOTHERS), 1990

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	18.0	12.0	23.9	8	0.71	.
ALBERTA WEST CENTRAL	32.6	23.5	41.8	19	1.30	YES
ATHABASCA	69.9	56.0	83.9	26	2.78	YES
BANFF NATIONAL PARK	10.3	0.2	20.5	1	0.41	.
BARONS-EUREKA-WARNER	18.8	12.2	25.5	9	0.75	.
BIG COUNTRY	13.0	2.6	23.3	3	0.52	.
CALGARY	23.8	21.8	25.8	13	0.95	.
CHINOOK	22.6	15.3	29.8	12	0.90	.
DRUMHELLER	24.6	16.2	33.1	14	0.98	.
EDMONTON	32.5	30.0	35.0	18	1.29	YES
FOOTHILLS	20.0	12.0	28.0	11	0.80	.
FORT MCMURRAY	45.5	35.0	56.0	23	1.81	YES
HIGH LEVEL-FORT VERMILION	88.8	66.7	110.9	27	3.53	YES
JASPER NATIONAL PARK	14.8	-5.7	35.3	4	0.59	.
LEDUC-STRATHCONA	15.2	11.6	18.7	5	0.60	.
LETHBRIDGE	29.6	22.4	36.9	17	1.18	.
MINBURN-VERMILION	12.3	6.6	18.0	2	0.49	.
MOUNT VIEW	15.6	10.3	20.9	6	0.62	.
NORTH EASTERN ALBERTA	47.7	38.0	57.5	24	1.90	YES
PEACE RIVER	49.5	38.4	60.6	25	1.97	YES
RED DEER REGIONAL	36.5	30.9	42.0	20	1.45	YES
SOUTHEASTERN ALBERTA	27.3	21.2	33.5	16	1.09	.
SOUTH PEACE	39.0	31.4	46.6	22	1.55	YES
STONY PLAIN-LAC STE. ANNE	37.4	29.6	45.1	21	1.49	YES
STURGEON	16.7	12.5	20.8	7	0.66	.
VEGREVILLE	19.5	11.0	28.1	10	0.78	.
WETOKA	26.7	18.0	35.4	15	1.06	.
ALBERTA	28.7	27.6	29.8			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

LIVE BIRTHS TO SINGLE TEENAGE MOTHERS, 1990

CHAPTER 2

STILLBIRTHS, INFANT MORTALITY

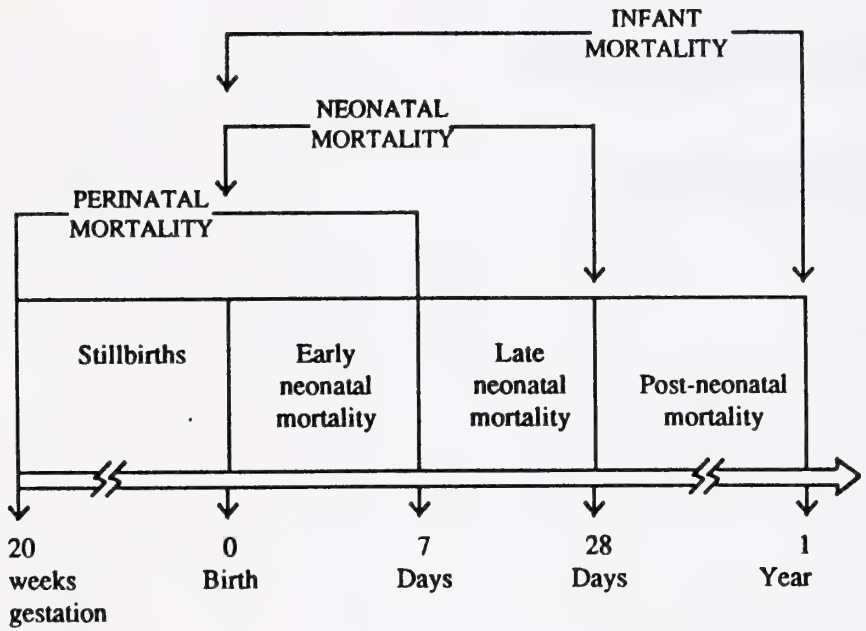
AND PERINATAL DEATHS

1990

DESCRIPTION OF TABLES

This chapter presents detailed information on stillbirths and infant mortality in Alberta health units. First, data for stillbirths are provided. This is followed by infant mortality rates, which include perinatal, early neonatal, late neonatal and post-neonatal mortality. The following figure illustrates the concept of stillbirths and infant mortality.

FIGURE



Tables 2.1 and 2.2 give the number of stillbirths among married females by age group and health units. Once again, the totals for the health units and Alberta are provided. Similarly, Table 2.2 shows the number of stillbirths among single females.

Table 2.3 presents the stillbirth ratios (per 1,000 live births) for the health units and Alberta. Stillbirth ratios are defined by:

$$\frac{\text{stillbirths}}{\text{live births}} \times 1{,}000$$

It is the number of stillbirths relative to the number of live births. Since stillbirth statistics are less reliable than desireable, stillbirth ratios should be interpreted with caution.

Table 2.4 shows the number and rate of infant deaths for each health unit. Infant death rate is defined by:

$$\frac{\text{number of deaths under 1 Year of Age}}{\text{number of live births}} \times 1{,}000$$

It should be noted that in 1990 there was a total of 323 infant deaths in the health units of Alberta. Another 12 occurred in Indian reserves, and 15 infant deaths were recorded without any health unit codes. Thus, the infant deaths and the rates shown in this table deal with 92% of the total Alberta infant deaths.

Table 2.5 gives the age distribution of infant mortality (early neonatal, late neonatal, and post-neonatal deaths).

Table 2.6 gives the number of perinatal deaths and perinatal death rates (per 1,000 births). Perinatal deaths consist of stillbirths and deaths within the first week of life. The perinatal death rate is defined by:

$$\frac{\text{stillbirths and first week deaths}}{\text{stillbirths and live births}} \times 1{,}000$$

Since stillbirth statistics are somewhat unreliable, as mentioned earlier, perinatal death rates must be interpreted with caution.

Tables 2.7 and 2.8 show the number and percentage of three major causes of early neonatal mortality, from 1988 to 1990 inclusive, for males and females, respectively.

Tables 2.9 and 2.10 give the number and percentage of three major causes of late neonatal and post-natal mortality, from 1988 to 1990 inclusive, for males and females, respectively.

The International Classification of Diseases - ninth revision (ICD-9) rubrics used in Tables 2.7 to 2.10 are as follows:

CAUSE OF DEATH	ICD-9 RUBRIC
Congenital	740.0 - 759.9
Respiratory	769.0
SIDS	798.0
Other	All other codes

NUMBER OF STILLBIRTHS AMONG MARRIED FEMALES, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	1	2	1	0	0	0	4
ALBERTA WEST CENTRAL	0	0	3	3	1	0	0	0	7
ATHABASCA	0	0	2	1	0	1	0	0	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	1	0	0	1	0	0	2
BIG COUNTRY	0	0	0	1	0	0	0	0	1
CALGARY	0	1	12	14	18	8	1	0	54
CHINOOK	0	0	0	0	1	0	0	0	1
DRUMHELLER	0	0	0	2	2	1	0	0	5
EDMONTON	0	1	8	13	15	6	2	0	45
FOOTHILLS	0	0	0	1	0	0	0	0	1
FORT MCMURRAY	0	0	0	0	1	1	0	0	2
HIGH LEVEL-FORT VERMILION	0	0	0	0	1	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	2	8	3	1	0	0	14
LETHBRIDGE	0	0	1	1	1	0	0	0	3
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	3	0	0	0	3
NORTH EASTERN ALBERTA	0	0	0	1	1	0	0	0	2
PEACE RIVER	0	0	0	6	0	0	0	0	6
RED DEER REGIONAL	0	0	1	3	2	3	0	0	9
SOUTHEASTERN ALBERTA	0	0	3	6	4	0	0	0	13
SOUTH PEACE	0	0	2	4	3	1	0	0	10
STONY PLAIN-LAC STE. ANNE	0	0	0	1	1	0	0	0	2
STURGEON	0	0	2	1	3	1	0	0	7
VEGREVILLE	0	0	0	0	1	0	1	0	2
WETOKA	0	0	1	1	0	2	1	0	5
ALBERTA	0	2	39	69	62	26	5	0	203

NUMBER OF STILLBIRTHS AMONG SINGLE FEMALES, 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	1	0	0	0	0	0	1
ALBERTA WEST CENTRAL	0	0	2	0	0	0	0	0	2
ATHABASCA	0	1	2	0	0	1	0	0	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0
CALGARY	0	2	7	1	2	0	0	0	12
CHINOOK	0	0	1	0	1	0	0	0	2
DRUMHELLER	0	0	0	0	0	0	0	0	0
EDMONTON	0	4	14	5	4	2	0	0	29
FOOTHILLS	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	2	0	0	0	0	0	0	2
HIGH LEVEL-FORT VERMILION	0	2	1	0	0	0	0	0	3
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	2	1	0	0	0	3
LETHBRIDGE	0	1	0	1	0	0	0	0	2
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	2	0	0	0	0	0	0	2
NORTH EASTERN ALBERTA	0	1	2	2	0	0	0	0	5
PEACE RIVER	0	1	0	2	0	0	0	0	3
RED DEER REGIONAL	0	1	4	0	0	1	0	0	6
SOUTHEASTERN ALBERTA	0	0	0	1	0	0	0	0	1
SOUTH PEACE	0	1	0	1	1	0	0	0	3
STONY PLAIN-LAC STE. ANNE	0	0	1	1	1	0	0	0	3
STURGEON	0	2	1	0	0	0	0	0	3
VEGREVILLE	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	0	0	0
ALBERTA	0	20	36	16	10	4	0	0	86

STILLBIRTH RATIOS (PER 1,000 LIVE BIRTHS), 1990

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0.0	0.0	9.0	6.0	6.8	0.0	0.0	0.0	6.3
ALBERTA WEST CENTRAL	0.0	0.0	24.9	10.9	7.7	0.0	0.0	0.0	13.0
ATHABASCA	0.0	8.8	19.5	5.4	0.0	71.4	0.0	0.0	12.7
BANFF NATIONAL PARK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARONS-EUREKA-WARNER	0.0	0.0	4.9	0.0	0.0	20.8	0.0	0.0	2.7
BIG COUNTRY	0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	5.2
CALGARY	0.0	4.6	9.1	3.5	5.4	6.9	9.1	0.0	5.5
CHINOOK	0.0	0.0	6.7	0.0	14.8	0.0	0.0	0.0	5.2
DRUMHELLER	0.0	0.0	0.0	8.9	16.3	47.6	0.0	0.0	9.4
EDMONTON	0.0	6.3	9.4	4.8	7.1	9.1	21.1	0.0	7.0
FOOTHILLS	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	1.9
FORT MCMURRAY	0.0	25.3	0.0	0.0	5.9	22.7	0.0	0.0	5.2
HIGH LEVEL-FORT VERMILION	0.0	25.6	6.5	0.0	12.7	0.0	0.0	0.0	8.5
JASPER NATIONAL PARK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEDUC-STRATHCONA	0.0	0.0	7.2	15.6	8.6	6.7	0.0	0.0	10.4
LETHBRIDGE	0.0	12.5	4.2	6.2	4.1	0.0	0.0	0.0	5.3
MINBURN-VERMILION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MOUNT VIEW	0.0	50.0	0.0	0.0	8.7	0.0	0.0	0.0	4.6
NORTH EASTERN ALBERTA	0.0	8.8	7.3	8.5	5.8	0.0	0.0	0.0	7.3
PEACE RIVER	0.0	10.6	0.0	27.0	0.0	0.0	0.0	0.0	11.3
RED DEER REGIONAL	0.0	5.0	9.4	3.7	4.6	41.2	0.0	0.0	7.2
SOUTHEASTERN ALBERTA	0.0	0.0	10.5	14.5	14.0	0.0	0.0	0.0	11.5
SOUTH PEACE	0.0	8.3	7.4	14.7	19.3	21.3	0.0	0.0	13.0
STONY PLAIN-LAC STE. ANNE	0.0	0.0	4.3	4.8	8.3	0.0	0.0	0.0	4.7
STURGEON	0.0	23.5	9.4	1.7	8.7	9.6	0.0	0.0	6.9
VEGREVILLE	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	6.1
WETOKA	0.0	0.0	7.4	4.5	0.0	40.0	250.0	0.0	8.5
ALBERTA	0.0	7.0	8.2	5.5	6.7	9.4	14.3	0.0	6.9

NUMBER OF INFANT DEATHS AND INFANT DEATH RATES, 1990

(PER 1,000 LIVE BIRTHS)

HEALTH UNIT	NUMBER	RATE
ALBERTA EAST CENTRAL	3	3.75
ALBERTA WEST CENTRAL	4	5.78
ATHABASCA	6	9.52
BANFF NATIONAL PARK	3	37.97
BARONS-EUREKA-WARNER	4	5.35
BIG COUNTRY	1	5.24
CALGARY	104	8.69
CHINOOK	5	8.73
DRUMHELLER	2	3.75
EDMONTON	80	7.57
FOOTHILLS	1	1.89
FORT MCMURRAY	5	6.52
HIGH LEVEL-FORT VERMILION	7	14.80
JASPER NATIONAL PARK	2	38.46
LEDUC-STRATHCONA	8	4.91
LETHBRIDGE	7	7.44
MINBURN-VERMILION	4	11.90
MOUNT VIEW	8	7.32
NORTH EASTERN ALBERTA	5	5.21
PEACE RIVER	5	6.25
RED DEER REGIONAL	13	6.22
SOUTHEASTERN ALBERTA	9	7.38
SOUTH PEACE	12	11.99
STONY PLAIN-LAC STE. ANNE	10	9.35
STURGEON	9	6.20
VEGREVILLE	2	6.08
WETOKA	4	6.79
ALBERTA	323	7.67

AGE-SPECIFIC DISTRIBUTION OF INFANT DEATHS, 1990

HEALTH UNIT	INFANT DEATHS < 7 DAYS	7-27 DAYS	28+ DAYS	PERCENTAGE DISTRIBUTION < 7 DAYS	7-27 DAYS	28+ DAYS
ALBERTA EAST CENTRAL	1	1	1	33.33	33.33	33.33
ALBERTA WEST CENTRAL	2	1	1	50.00	25.00	25.00
ATHABASCA	0	2	4	0.00	33.33	66.67
BANFF NATIONAL PARK	1	1	1	33.33	33.33	33.33
BARONS-EUREKA-WARNER	4	0	0	100.00	0.00	0.00
BIG COUNTRY	1	0	0	100.00	0.00	0.00
CALGARY	59	18	27	56.73	17.31	25.96
CHINOOK	2	0	3	40.00	0.00	60.00
DRUMHELLER	1	0	1	50.00	0.00	50.00
EDMONTON	38	6	36	47.50	7.50	45.00
FOOTHILLS	1	0	0	100.00	0.00	0.00
FORT MCMURRAY	2	1	2	40.00	20.00	40.00
HIGH LEVEL-FORT VERMILION	1	1	5	14.29	14.29	71.43
JASPER NATIONAL PARK	1	0	1	50.00	0.00	50.00
LEDUC-STRATHCONA	4	1	3	50.00	12.50	37.50
LETHBRIDGE	5	0	2	50.00	0.00	50.00
MINBURN-VERMILION	4	0	0	100.00	0.00	0.00
MOUNT VIEW	2	2	4	25.00	25.00	50.00
NORTH EASTERN ALBERTA	2	2	1	40.00	40.00	20.00
PEACE RIVER	3	2	0	60.00	40.00	0.00
RED DEER REGIONAL	3	2	8	23.08	15.38	61.54
SOUTHEASTERN ALBERTA	6	2	1	66.67	22.22	11.11
SOUTH PEACE	5	3	4	41.67	25.00	33.33
STONY PLAIN-LAC STE. ANNE	3	2	5	30.00	20.00	50.00
STURGEON	5	0	4	55.56	0.00	44.44
VEGREVILLE	1	0	1	50.00	0.00	50.00
WETOKA	3	0	1	75.00	0.00	25.00
ALBERTA	160	47	116	49.50	14.60	35.90

NUMBER OF PERINATAL DEATHS AND PARINATAL DEATH RATES, 1990

(PER 1,000 BIRTHS)

HEALTH UNIT	NUMBER	RATE
ALBERTA EAST CENTRAL	6	7.45
ALBERTA WEST CENTRAL	11	15.69
ATHABASCA	8	12.54
BANFF NATIONAL PARK	1	12.66
BARONS-EUREKA-WARNER	6	8.01
BIG COUNTRY	2	10.42
CALGARY	125	10.38
CHINOOK	5	8.68
DRUMHELLER	6	11.13
EDMONTON	112	10.52
FOOTHILLS	2	3.77
FORT MCMURRAY	6	7.78
HIGH LEVEL-FORT VERMILION	5	10.48
JASPER NATIONAL PARK	1	19.23
LEDUC-STRATHCONA	21	12.76
LETHBRIDGE	10	10.57
MINBURN-VERMILION	4	11.90
MOUNT VIEW	7	6.38
NORTH EASTERN ALBERTA	9	9.32
PEACE RIVER	12	14.83
RED DEER REGIONAL	18	8.55
SOUTHEASTERN ALBERTA	20	16.22
SOUTH PEACE	18	17.75
STONY PLAIN-LAC STE. ANNE	8	7.45
STURGEON	15	10.26
VEGREVILLE	3	9.06
WETOKA	8	13.47
ALBERTA	449	10.59

MAJOR CAUSES OF EARLY NEONATAL MORTALITY (Less Than 7 Days), MALES

1988 TO 1990

HEALTH UNIT	CONGENITAL NO.	CONGENITAL %	RESPIRATORY NO.	RESPIRATORY %	S.I.D.S. NO.	S.I.D.S. %	OTHER NO.	OTHER %	TOTAL NO.	TOTAL %
ALBERTA EAST CENTRAL	3	50.00	1	16.67	0	0.00	2	33.33	6	100.00
ALBERTA WEST CENTRAL	2	28.57	1	14.29	0	0.00	4	57.14	7	100.00
ATHABASCA	2	100.00	0	0.00	0	0.00	0	0.00	2	100.00
BANFF NATIONAL PARK	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
BARONS-EUREKA-WARNER	2	66.67	0	0.00	0	0.00	1	33.33	3	100.00
BIG COUNTRY	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
CALGARY	21	24.71	13	15.29	0	0.00	51	60.00	85	100.00
CHINOOK	1	33.33	0	0.00	0	0.00	2	66.67	3	100.00
DRUMHELLER	0	0.00	1	33.33	0	0.00	2	66.67	3	100.00
EDMONTON	25	40.32	10	16.13	0	0.00	27	43.55	62	100.00
FOOTHILLS	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00
FORT MCMURRAY	2	40.00	1	20.00	0	0.00	2	40.00	5	100.00
HIGH LEVEL-FORT VERMILION	2	50.00	0	0.00	0	0.00	2	50.00	4	100.00
JASPER NATIONAL PARK	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00
LEDUC-STRATHCONA	2	28.57	0	0.00	0	0.00	5	71.43	7	100.00
LETHBRIDGE	3	50.00	0	0.00	0	0.00	3	50.00	6	100.00
MINBURN-VERMILION	1	33.33	0	0.00	0	0.00	2	66.67	3	100.00
MOUNT VIEW	3	42.86	1	14.29	0	0.00	3	42.86	7	100.00
NORTH EASTERN ALBERTA	5	71.43	1	14.29	0	0.00	1	14.29	7	100.00
PEACE RIVER	5	71.43	0	0.00	0	0.00	2	28.57	7	100.00
RED DEER REGIONAL	5	38.46	2	15.38	0	0.00	6	46.15	13	100.00
SOUTHEASTERN ALBERTA	8	72.73	0	0.00	0	0.00	3	27.27	11	100.00
SOUTH PEACE	3	42.86	3	42.86	0	0.00	1	14.29	7	100.00
STONY PLAIN-LAC STE. ANNE	4	44.44	0	0.00	0	0.00	5	55.56	9	100.00
STURGEON	5	55.56	1	11.11	0	0.00	3	33.33	9	100.00
VEGREVILLE	0	0.00	0	0.00	0	0.00	0	0.00	0	100.00
WETOKA	0	0.00	1	50.00	0	0.00	1	50.00	2	100.00
ALBERTA	105	38.75	38	14.02	0	0.00	128	47.23	271	100.00

MAJOR CAUSES OF EARLY NEONATAL MORTALITY (Less Than 7 Days), FEMALES

1988 TO 1990

HEALTH UNIT	CONGENITAL NO.	CONGENITAL %	RESPIRATORY NO.	RESPIRATORY %	S.I.D.S. NO.	S.I.D.S. %	OTHER NO.	OTHER %	TOTAL NO.	TOTAL %
ALBERTA EAST CENTRAL	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
ALBERTA WEST CENTRAL	0	0.00	1	100.00	0	0.00	0	0.00	1	100.00
ATHABASCA	1	33.33	0	0.00	0	0.00	2	66.67	3	100.00
BANFF NATIONAL PARK	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00
BARONS-EUREKA-WARNER	3	75.00	1	25.00	0	0.00	0	0.00	4	100.00
BIG COUNTRY	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
CALGARY	12	22.64	12	22.64	0	0.00	29	54.72	53	100.00
CHINOOK	2	66.67	1	33.33	0	0.00	0	0.00	3	100.00
DRUMHELLER	1	50.00	1	50.00	0	0.00	0	0.00	2	100.00
EDMONTON	19	35.85	12	22.64	0	0.00	22	41.51	53	100.00
FOOTHILLS	1	33.33	0	0.00	0	0.00	2	66.67	3	100.00
FORT MCMURRAY	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
HIGH LEVEL-FORT VERMILION	2	50.00	0	0.00	0	0.00	2	50.00	4	100.00
JASPER NATIONAL PARK	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
LEDUC-STRATHCONA	3	75.00	0	0.00	0	0.00	1	25.00	4	100.00
LETHBRIDGE	2	40.00	1	20.00	0	0.00	2	40.00	5	100.00
MINBURN-VERMILION	2	66.67	0	0.00	0	0.00	1	33.33	3	100.00
MOUNT VIEW	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00
NORTH EASTERN ALBERTA	2	50.00	1	25.00	0	0.00	1	25.00	4	100.00
PEACE RIVER	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
RED DEER REGIONAL	5	83.33	0	0.00	0	0.00	1	16.67	6	100.00
SOUTHEASTERN ALBERTA	4	80.00	0	0.00	0	0.00	1	20.00	5	100.00
SOUTH PEACE	3	50.00	2	33.33	0	0.00	1	16.67	6	100.00
STONY PLAIN-LAC STE. ANNE	3	50.00	0	0.00	0	0.00	3	50.00	6	100.00
STURGEON	2	22.22	0	0.00	0	0.00	7	77.78	9	100.00
VEGREVILLE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
WETOKA	0	0.00	1	50.00	0	0.00	1	50.00	2	100.00
ALBERTA	70	38.25	33	18.03	0	0.00	80	43.72	183	100.00

MAJOR CAUSES OF LATE NEONATAL AND POST NEONATAL MORTALITY (7 Days and Over), MALES

1988 TO 1990

HEALTH UNIT	CONGENITAL		RESPIRATORY		S.I.D.S.		OTHER		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	2	50.00	0	0.00	0	0.00	2	50.00	4	100.00
ALBERTA WEST CENTRAL	2	28.57	1	14.29	2	28.57	2	28.57	7	100.00
ATHABASCA	1	14.29	2	28.57	0	0.00	4	57.14	7	100.00
BANFF NATIONAL PARK	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
BARONS-EUREKA-WARNER	0	0.00	0	0.00	1	50.00	1	50.00	2	100.00
BIG COUNTRY	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
CALGARY	12	16.00	4	5.33	29	38.67	30	40.00	75	100.00
CHINOOK	1	12.50	0	0.00	2	25.00	5	62.50	8	100.00
DRUMHELLER	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
EDMONTON	13	18.57	2	2.86	31	44.29	24	34.29	70	100.00
FOOTHILLS	0	0.00	0	0.00	0	0.00	1	0.00	1	100.00
FORT MCMURRAY	1	14.29	0	0.00	1	14.29	5	71.43	7	100.00
HIGH LEVEL-FORT VERMILION	0	0.00	0	0.00	1	25.00	3	75.00	4	100.00
JASPER NATIONAL PARK	0	0.00	0	0.00	1	50.00	1	50.00	2	100.00
LEDUC-STRATHCONA	5	62.50	0	0.00	1	12.50	2	25.00	8	100.00
LETHBRIDGE	1	16.67	0	0.00	4	66.67	1	16.67	6	100.00
MINBURN-VERMILION	3	60.00	0	0.00	1	20.00	1	20.00	5	100.00
MOUNT VIEW	2	33.33	0	0.00	3	50.00	1	16.67	6	100.00
NORTH EASTERN ALBERTA	1	11.11	0	0.00	3	33.33	5	55.56	9	100.00
PEACE RIVER	1	25.00	0	0.00	2	50.00	1	25.00	4	100.00
RED DEER REGIONAL	2	16.67	0	0.00	3	25.00	7	58.33	12	100.00
SOUTHEASTERN ALBERTA	4	44.40	0	0.00	2	22.22	3	33.33	9	100.00
SOUTH PEACE	5	26.32	3	15.79	5	26.32	6	31.58	19	100.00
STONY PLAIN-LAC STE. ANNE	2	22.22	0	0.00	4	44.44	3	33.33	9	100.00
STURGEON	4	40.00	0	0.00	2	20.00	4	40.00	10	100.00
VEGREVILLE	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
WETOKA	1	33.33	0	0.00	1	33.33	1	33.33	3	100.00
ALBERTA	66	22.60	12	4.11	100	34.25	114	39.04	292	100.00

MAJOR CAUSES OF LATE NEONATAL AND POST NEONATAL MORTALITY (7 Days and Over), FEMALES

1988 TO 1990

HEALTH UNIT	CONGENITAL		RESPIRATORY		S.I.D.S.		OTHER		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	1	50.00	0	0.00	1	50.00	0	0.00	2	100.00
ALBERTA WEST CENTRAL	0	0.00	0	0.00	1	25.00	3	75.00	4	100.00
ATHABASCA	1	20.00	0	0.00	2	40.00	2	40.00	5	100.00
BANFF NATIONAL PARK	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
BARONS-EUREKA-WARNER	0	0.00	0	0.00	1	50.00	1	50.00	2	100.00
BIG COUNTRY	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
CALGARY	15	33.33	3	6.67	9	20.00	18	40.00	45	100.00
CHINOOK	3	50.00	0	0.00	1	16.67	2	33.33	6	100.00
DRUMHELLER	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00
EDMONTON	20	30.30	2	3.03	19	28.79	25	37.88	66	100.00
FOOTHILLS	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
FORT MCMURRAY	0	0.00	0	0.00	1	20.00	4	80.00	5	100.00
HIGH LEVEL-FORT VERMILION	0	0.00	0	0.00	1	20.00	4	80.00	5	100.00
JASPER NATIONAL PARK	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
LEDUC-STRATHCONA	0	0.00	0	0.00	1	20.00	4	80.00	5	100.00
LETHBRIDGE	1	20.00	0	0.00	3	60.00	1	20.00	5	100.00
MINBURN-VERMILION	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
MOUNT VIEW	4	66.67	0	0.00	1	16.67	1	16.67	6	100.00
NORTH EASTERN ALBERTA	2	33.33	1	16.67	3	50.00	0	0.00	6	100.00
PEACE RIVER	1	50.00	0	0.00	0	0.00	1	50.00	2	100.00
RED DEER REGIONAL	3	21.43	0	0.00	7	50.00	4	28.57	14	100.00
SOUTHEASTERN ALBERTA	2	33.33	1	16.67	0	0.00	3	50.00	6	100.00
SOUTH PEACE	4	80.00	0	0.00	1	20.00	0	0.00	5	100.00
STONY PLAIN-LAC STE. ANNE	4	66.67	0	0.00	0	0.00	2	33.33	6	100.00
STURGEON	1	16.67	0	0.00	3	50.00	2	33.33	6	100.00
VEGREVILLE	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00
WETOKA	2	33.33	0	0.00	2	33.33	2	33.33	6	100.00
ALBERTA	67	31.46	7	3.29	58	27.23	81	38.03	213	100.00

CHAPTER 3

MALE DEATHS

1990

DESCRIPTION OF TABLES

Chapter 3 deals with deaths in the male population for the year 1990, by health units of Alberta. Ideally, five-year age groups are used for the purpose of standardization. However, in this report somewhat broader age groups have been used. These have been defined by aggregating five-year age groups in such a way as to cover meaningful periods in the lifespan. For example, 5-14 for the school years, 15-24 for early adulthood, etc.

The age-specific male death rate (per 100,000 males) is defined by:

$$\frac{\text{number of deaths to males in age group}}{\text{number of males in age group}} \times 100{,}000$$

The age-standardized death rates in this chapter have been standardized to the estimated male population of Alberta in 1990. So for each health unit, the male age-standardized death rate for a given cause equals the death rate that would have been observed in that health unit if it had had the age distribution of males in Alberta as a whole in 1990.

The format for this chapter is basically the same as that used in Chapter 1. Following a description of the population by age group, there is a series of four page sections. Each section deals with a specific cause of death. Note that death rates should be interpreted with considerable caution. Since there are far fewer deaths than live births per year, and the deaths are spread out over both sexes and all age groups, the tables here are much sparser looking than those of Chapter 1. As a result, the confidence intervals for the age-standardized death rates are generally quite wide. To an even greater degree this remark applies to confidence intervals for age-specific death rates (not shown). When a confidence interval lower limit extended into the negative numbers, it has been reported as such; another approach would have been to arbitrarily set it equal to zero. In certain cases several health units were found to have identical (age-standardized) rates. When this happened, ranks for these health units were assigned randomly rather than giving each of the health units involved the same intermediate rank. For the most part, ties were due to several health units having no deaths due to a cause, and hence a rate of zero. Note that death rates are given per 100,000 males, whereas live birth rates are per 1,000 females.

The causes of death selected for study along with the rubrics according to the ICD-9 are as follows:

CAUSE OF DEATH	ICD-9RUBRIC
All Causes	1 - 999
All Cancer	140 - 208
Colon Cancer	153 - 154
Lung Cancer	162
Prostrate Cancer	185
Diabetes Mellitus	250
Ischemic Heart Disease	410 - 414
Cerebrovascular Disease	430 - 438
Pneumonia	480 - 486
Chronic Obstructive Lung Disease	490 - 493, 496
Liver Cirrhosis	571
Congenital Anomaly	740 - 759
Motor Vehicle Accidents	810 - 819
Suicide	950 - 959

The causes have been ordered in the table and in the chapter in ascending order of rubric number, except for prostate cancer which has been placed at the end of the Chapter. Because of this arrangement, the tables and figures in this Chapter correspond by page numbers.

In an attempt to concentrate even more attention on premature death, one might calculate years of life lost using only those deaths which occurred before a certain age and, eventually, consider only the years of life lost before this age limit. The indicator Potential Years of Life Lost (PYLL) is designed to take into account both of these two possibilities and is thus an excellent indicator of premature mortality.

More specifically, the indicator PYLL provides an estimate of the total years of life lost before age 70, by persons deceased between their 1st and 70th birthdays. For each death considered, the duration of life lost before age 70 is defined as the time interval separating death from the 70th birthday. For a given cause, the total potential years of life lost depend only on the number and mean age of its victims between age 1 and 70[7].

Thus, Table 3.59 shows potential years of life lost from selected preventable causes. Charts 3.60 and 3.61 are presented to illustrate this data.

Since there are 27 health units in the province of Alberta, and also, given the small population size of quite a few health units, a comparison of distribution of PYLL by gender and causes would be more appropriate on a regional basis.

The regions selected for this purpose are the ones adopted by the Health Unit Association of Alberta and currently have no statutory basis.

NUMBER IN MALE POPULATION, 1990

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	480	1770	4459	4061	4124	3810	2723	2624	2384	1620	28055
ALBERTA WEST CENTRAL	378	1468	3886	3302	4048	3271	2157	1424	758	424	21116
ATHABASCA	376	1244	3177	2744	2572	2258	1508	1317	763	533	16492
BANFF NATIONAL PARK	43	170	336	988	1088	685	342	258	109	58	4077
BARONS-EUREKA-WARNER	386	1617	3906	3293	3086	2794	2085	1674	1117	736	20694
BIG COUNTRY	134	426	1112	1003	1101	787	683	716	490	314	6766
CALGARY	5837	21406	45151	50268	72628	56729	32244	23715	13302	6751	328031
CHINOOK	367	1482	3913	3067	2905	2792	1928	1749	1505	1047	20755
DRUMHELLER	292	1158	2931	2637	2690	2654	1521	1431	1176	737	17227
EDMONTON	5362	19250	38451	47200	61668	43444	28624	23567	13917	7886	289369
FOOTHILLS	269	1197	2946	2245	2594	2977	1779	1412	1059	715	17193
FORT MCMURRAY	404	1680	3814	3094	4502	3924	1612	555	119	73	19777
HIGH LEVEL-FORT VERMILION	214	820	1781	1336	1264	923	544	357	186	81	7506
JASPER NATIONAL PARK	29	99	175	464	602	319	139	149	51	63	2090
LEDUC-STRATHCONA	900	3681	10566	8173	8235	11013	5891	3460	1792	931	54642
LETHBRIDGE	426	1859	4512	4580	5004	4321	2754	2515	2137	1394	29502
MINBURN-VERMILION	367	1421	3354	2942	3339	2815	1880	1672	1309	939	20038
MOUNT VIEW	555	2306	5649	4362	5569	5589	3273	2315	1387	904	31909
NORTH EASTERN ALBERTA	503	1962	4419	4097	4477	3439	2376	1798	1342	756	25169
PEACE RIVER	384	1585	3678	3331	3222	2711	2055	1451	887	725	20029
RED DEER REGIONAL	1117	4507	10024	9347	11859	9401	5646	4363	3257	1988	61509
SOUTHEASTERN ALBERTA	684	2534	6491	5919	6930	5531	3649	3196	2585	1430	38949
SOUTH PEACE	668	2622	6144	5352	6208	5097	3115	2253	1285	942	33686
STONY PLAIN-LAC STE. ANNE	646	2575	6668	4891	5770	6299	3690	2396	1309	745	34989
STURGEON	842	3547	9447	7211	8031	9403	5193	3509	2067	1253	50503
VEGREVILLE	218	860	2358	1857	2048	2131	1526	1528	1577	1158	15261
WETOKA	332	1255	3125	2747	2832	2874	1940	1772	1353	971	19201
ALBERTA	22213	84501	192473	190511	238396	197991	120877	93176	59223	35174	1234535

AGE DISTRIBUTION (IN %) MALES, 1990

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	1.71	6.31	15.89	14.48	14.70	13.58	9.71	9.35	8.50	5.77
ALBERTA WEST CENTRAL	1.79	6.95	18.40	15.64	19.17	15.49	10.22	6.74	3.59	2.01
ATHABASCA	2.28	7.54	19.26	16.64	15.60	13.69	9.14	7.99	4.63	3.23
BANFF NATIONAL PARK	1.05	4.17	8.24	24.23	26.69	16.80	8.39	6.33	2.67	1.42
BARONS-EUREKA-WARNER	1.87	7.81	18.88	15.91	14.91	13.50	10.08	8.09	5.40	3.56
BIG COUNTRY	1.98	6.30	16.44	14.82	16.27	11.63	10.09	10.58	7.24	4.64
CALGARY	1.78	6.53	13.76	15.32	22.14	17.29	9.83	7.23	4.06	2.06
CHINOOK	1.77	7.14	18.85	14.78	14.00	13.45	9.29	8.43	7.25	5.04
DRUMHELLER	1.70	6.72	17.01	15.31	15.62	15.41	8.83	8.31	6.83	4.28
EDMONTON	1.85	6.65	13.29	16.31	21.31	15.01	9.89	8.14	4.81	2.73
FOOTHILLS	1.56	6.96	17.13	13.06	15.09	17.32	10.35	8.21	6.16	4.16
FORT MCMURRAY	2.04	8.49	19.29	15.64	22.76	19.84	8.15	2.81	0.60	0.37
HIGH LEVEL-FORT VERMILION	2.85	10.92	23.73	17.80	16.84	12.30	7.25	4.76	2.48	1.08
JASPER NATIONAL PARK	1.39	4.74	8.37	22.20	28.80	15.26	6.65	7.13	2.44	3.01
LEDUC-STRATHCONA	1.65	6.74	19.34	14.96	15.07	20.15	10.78	6.33	3.28	1.70
LETHBRIDGE	1.44	6.30	15.29	15.52	16.96	14.65	9.33	8.52	7.24	4.73
MINBURN-VERMILION	1.83	7.09	16.74	14.68	16.66	14.05	9.38	8.34	6.53	4.69
MOUNT VIEW	1.74	7.23	17.70	13.67	17.45	17.52	10.26	7.26	4.35	2.83
NORTH EASTERN ALBERTA	2.00	7.80	17.56	16.28	17.79	13.66	9.44	7.14	5.33	3.00
PEACE RIVER	1.92	7.91	18.36	16.63	16.09	13.54	10.26	7.24	4.43	3.62
RED DEER REGIONAL	1.82	7.33	16.30	15.20	19.28	15.28	9.18	7.09	5.30	3.23
SOUTHEASTERN ALBERTA	1.76	6.51	16.67	15.20	17.79	14.20	9.37	8.21	6.64	3.67
SOUTH PEACE	1.98	7.78	18.24	15.89	18.43	15.13	9.25	6.69	3.81	2.80
STONY PLAIN-LAC STE. ANNE	1.85	7.36	19.06	13.98	16.49	18.00	10.55	6.85	3.74	2.13
STURGEON	1.67	7.02	18.71	14.28	15.90	18.62	10.28	6.95	4.09	2.48
VEGREVILLE	1.43	5.64	15.45	12.17	13.42	13.96	10.00	10.01	10.33	7.59
WETOKA	1.73	6.54	16.28	14.31	14.75	14.97	10.10	9.23	7.05	5.06
ALBERTA	1.80	6.84	15.59	15.43	19.31	16.04	9.79	7.55	4.80	2.85

NUMBER OF MALE DEATHS, 1990

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	3	0	1	3	3	4	10	26	60	134	244
ALBERTA WEST CENTRAL	3	0	5	4	6	5	9	21	26	37	116
ATHABASCA	4	2	0	8	10	2	7	17	23	49	122
BANFF NATIONAL PARK	1	1	0	0	0	0	1	0	1	2	6
BARONS-EUREKA-WARNER	2	2	2	0	4	4	7	16	33	59	129
BIG COUNTRY	1	1	1	0	2	0	1	5	18	24	53
CALGARY	63	8	9	50	83	75	148	258	389	656	1739
CHINOOK	4	0	1	3	8	8	9	13	46	93	185
DRUMHELLER	1	0	2	4	3	5	3	16	39	62	135
EDMONTON	36	4	11	50	88	100	139	305	466	746	1945
FOOTHILLS	1	0	1	4	5	3	7	15	35	71	142
FORT MCMURRAY	4	0	0	8	2	4	6	4	6	8	42
HIGH LEVEL-FORT VERMILION	4	1	1	7	3	2	5	8	5	3	39
JASPER NATIONAL PARK	2	0	1	1	0	1	1	1	1	4	12
LEDUC-STRATHCONA	7	0	4	8	9	10	14	38	60	104	254
LETHBRIDGE	4	0	4	2	5	10	15	35	63	123	261
MINBURN-VERMILION	3	0	1	4	0	3	4	13	26	76	130
MOUNT VIEW	4	1	2	5	10	8	8	27	42	94	201
NORTH EASTERN ALBERTA	2	0	3	4	8	6	8	22	34	66	153
PEACE RIVER	4	3	1	9	3	7	13	15	22	71	148
RED DEER REGIONAL	5	3	2	11	22	10	20	41	110	175	399
SOUTHEASTERN ALBERTA	4	0	0	7	7	11	12	39	90	144	314
SOUTH PEACE	8	1	3	5	11	11	9	23	27	65	163
STONY PLAIN-LAC STE. ANNE	8	0	1	2	17	6	12	23	35	61	165
STURGEON	4	4	6	5	9	24	14	38	73	110	287
VEGREVILLE	1	0	0	2	3	4	6	17	33	118	184
WETOKA	2	2	0	6	4	7	7	20	42	91	181
ALBERTA	185	33	62	212	325	330	495	1056	1805	3246	7749

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	625	0	22	74	73	105	367	991	2517	8272
ALBERTA WEST CENTRAL	794	0	129	121	148	153	417	1475	3430	8726
ATHABASCA	1064	161	0	292	389	89	464	1291	3014	9193
BANFF NATIONAL PARK	2326	588	0	0	0	0	292	0	917	3448
BARONS-EUREKA-WARNER	518	124	51	0	130	143	336	956	2954	8016
BIG COUNTRY	746	235	90	0	182	0	146	698	3673	7643
CALGARY	1079	37	20	99	114	132	459	1088	2924	9717
CHINOOK	1090	0	26	98	275	287	467	743	3056	8883
DRUMHELLER	342	0	68	152	112	188	197	1118	3316	8412
EDMONTON	671	21	29	106	143	230	486	1294	3348	9460
FOOTHILLS	372	0	34	178	193	101	393	1062	3305	9930
FORT MCMURRAY	990	0	0	259	44	102	372	721	5042	10959
HIGH LEVEL-FORT VERMILION	1869	122	56	524	237	217	919	2241	2688	3704
JASPER NATIONAL PARK	6897	0	571	216	0	313	719	671	1961	6349
LEDUC-STRATHCONA	778	0	38	98	109	91	238	1098	3348	11171
LETHBRIDGE	939	0	89	44	100	231	545	1392	2948	8824
MINBURN-VERMILION	817	0	30	136	0	107	213	778	1986	8094
MOUNT VIEW	721	43	35	115	180	143	244	1166	3028	10398
NORTH EASTERN ALBERTA	398	0	68	98	179	174	337	1224	2534	8730
PEACE RIVER	1042	189	27	270	93	258	633	1034	2480	9793
RED DEER REGIONAL	448	67	20	118	186	106	354	940	3377	8803
SOUTHEASTERN ALBERTA	585	0	0	118	101	199	329	1220	3482	10070
SOUTH PEACE	1198	38	49	93	177	216	289	1021	2101	6900
STONY PLAIN-LAC STE. ANNE	1238	0	15	41	295	95	325	960	2674	8188
STURGEON	475	113	64	69	112	255	270	1083	3532	8779
VEGREVILLE	459	0	0	108	146	188	393	1113	2093	10190
WETOKA	602	159	0	218	141	244	361	1129	3104	9372
ALBERTA	833	39	32	111	136	167	410	1133	3048	9228

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

ALL CAUSES

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	524	455	593	24	0.83	.
ALBERTA WEST CENTRAL	672	548	795	7	1.07	.
ATHABASCA	714	586	841	2	1.14	.
BANFF NATIONAL PARK	253	48	458	27	0.40	.
BARONS-EUREKA-WARNER	549	453	644	22	0.87	.
BIG COUNTRY	540	391	688	23	0.86	.
CALGARY	628	598	658	15	1.00	.
CHINOOK	639	543	736	14	1.02	.
DRUMHELLER	594	492	697	19	0.95	.
EDMONTON	674	644	704	6	1.07	YES
FOOTHILLS	653	544	762	11	1.04	.
FORT MCMURRAY	728	429	1027	1	1.16	.
HIGH LEVEL-FORT VERMILION	706	467	945	3	1.12	.
JASPER NATIONAL PARK	693	282	1103	4	1.10	.
LEDUC-STRATHCONA	656	574	738	10	1.04	.
LETHBRIDGE	645	564	726	13	1.03	.
MINBURN-VERMILION	463	381	544	26	0.74	.
MOUNT VIEW	650	560	740	12	1.04	.
NORTH EASTERN ALBERTA	591	497	685	20	0.94	.
PEACE RIVER	675	565	785	5	1.07	.
RED DEER REGIONAL	605	546	665	17	0.96	.
SOUTHEASTERN ALBERTA	658	585	732	8	1.05	.
SOUTH PEACE	518	438	598	25	0.82	.
STONY PLAIN-LAC STE. ANNE	569	481	656	21	0.91	.
STURGEON	627	554	700	16	1.00	.
VEGREVILLE	596	501	692	18	0.95	.
WETOKA	658	559	757	9	1.05	.
ALBERTA	628	614	642			

HEALTH UNITS OF ALBERTA

Alberta HEALTH

ALL CAUSES, MALES, 1990

NUMBER OF MALE DEATHS, 1990

ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	1	1	0	0	7	8	20	28	65
ALBERTA WEST CENTRAL	0	0	0	0	0	0	2	9	7	8	26
ATHABASCA	0	0	0	0	1	0	2	6	10	14	33
BANFF NATIONAL PARK	0	0	0	0	0	0	1	0	0	0	1
BARONS-EUREKA-WARNER	0	0	0	0	1	1	1	6	13	14	36
BIG COUNTRY	0	0	0	0	0	0	0	2	6	4	12
CALGARY	0	2	4	4	8	14	49	100	154	153	488
CHINOOK	0	0	0	0	0	0	0	5	14	14	33
DRUMHELLER	0	0	2	0	0	0	1	6	17	9	35
EDMONTON	0	1	1	3	8	19	36	109	153	160	490
FOOTHILLS	0	0	0	0	0	0	2	8	12	9	31
FORT MCMURRAY	0	0	0	0	0	0	1	1	4	0	6
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	1	4	1	1	7
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	1	1	1	2	5	14	22	23	69
LETHBRIDGE	0	0	0	0	1	2	5	11	23	21	63
MINBURN-VERMILION	0	0	0	0	0	2	1	4	7	11	25
MOUNT VIEW	0	0	0	0	0	1	1	9	20	27	58
NORTH EASTERN ALBERTA	0	0	0	1	3	0	3	9	10	13	39
PEACE RIVER	0	0	0	0	0	1	4	4	8	20	37
RED DEER REGIONAL	0	1	0	0	1	1	6	16	41	38	104
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	3	12	33	29	78
SOUTH PEACE	0	0	0	0	1	1	5	7	9	12	35
STONY PLAIN-LAC STE. ANNE	0	0	0	0	2	3	3	7	11	12	38
STURGEON	0	0	0	2	0	2	4	12	26	31	77
VEGREVILLE	0	0	0	0	0	0	1	9	12	27	49
WETOKA	0	0	0	0	0	1	4	3	13	23	44
ALBERTA	0	4	9	12	27	51	148	381	646	701	1979

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

ALL CANCER

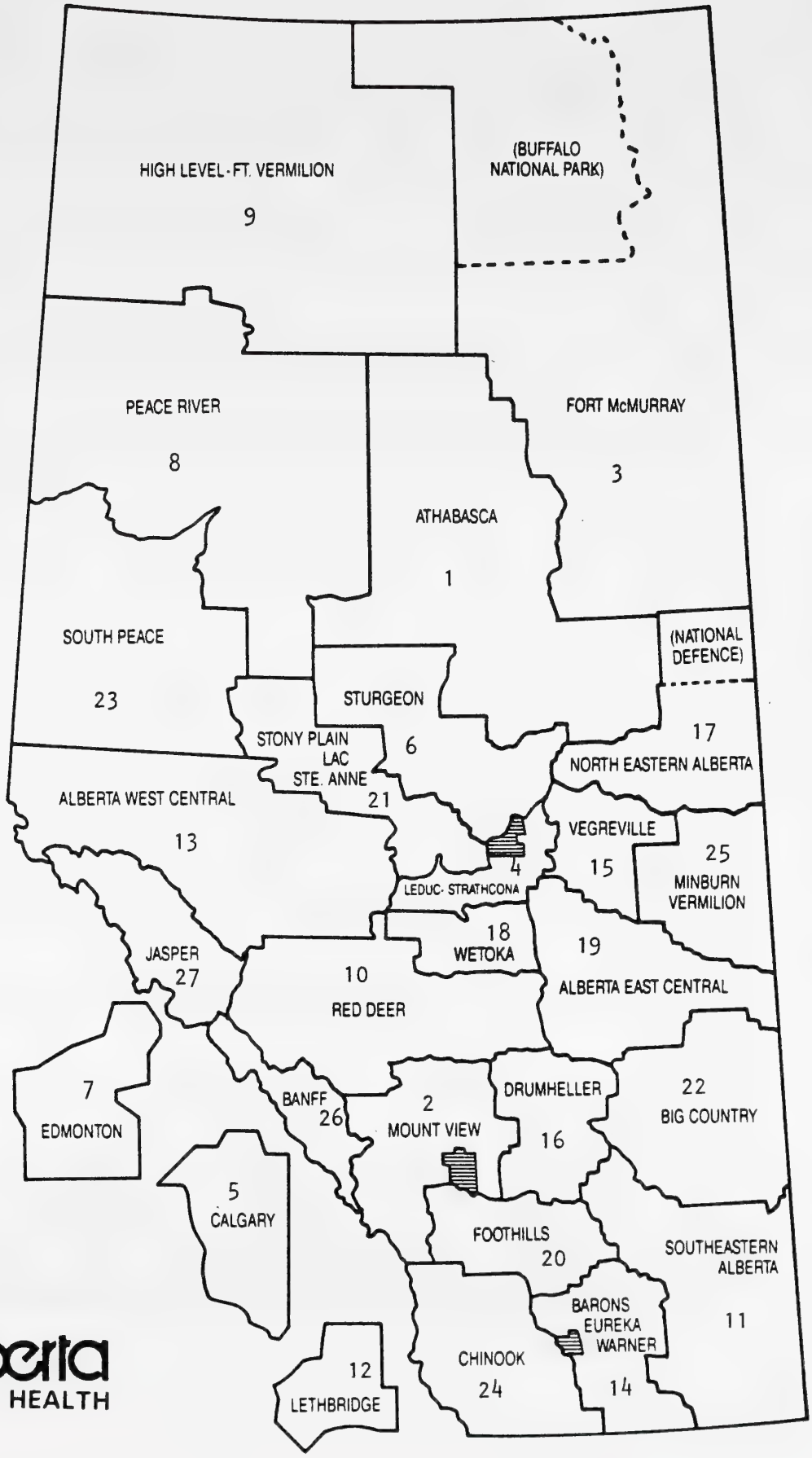
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	22	25	0	0	257	305	839	1728
ALBERTA WEST CENTRAL	0	0	0	0	0	0	93	632	923	1887
ATHABASCA	0	0	0	0	39	0	133	456	1311	2627
BANFF NATIONAL PARK	0	0	0	0	0	0	292	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	32	36	48	358	1164	1902
BIG COUNTRY	0	0	0	0	0	0	0	279	1224	1274
CALGARY	0	9	9	8	11	25	152	422	1158	2266
CHINOOK	0	0	0	0	0	0	0	286	930	1337
DRUMHELLER	0	0	68	0	0	0	66	419	1446	1221
EDMONTON	0	5	3	6	13	44	126	463	1099	2029
FOOTHILLS	0	0	0	0	0	0	112	567	1133	1259
FORT MCMURRAY	0	0	0	0	0	0	62	180	3361	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	184	1120	538	1235
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	9	12	12	18	85	405	1228	2470
LETHBRIDGE	0	0	0	0	20	46	182	437	1076	1506
MINBURN-VERMILION	0	0	0	0	0	71	53	239	535	1171
MOUNT VIEW	0	0	0	0	0	18	31	389	1442	2987
NORTH EASTERN ALBERTA	0	0	0	24	67	0	126	501	745	1720
PEACE RIVER	0	0	0	0	0	37	195	276	902	2759
RED DEER REGIONAL	0	22	0	0	8	11	106	367	1259	1911
SOUTHEASTERN ALBERTA	0	0	0	0	0	18	82	375	1277	2028
SOUTH PEACE	0	0	0	0	16	20	161	311	700	1274
STONY PLAIN-LAC STE. ANNE	0	0	0	0	35	48	81	292	840	1611
STURGEON	0	0	0	28	0	21	77	342	1258	2474
VEGREVILLE	0	0	0	0	0	0	66	589	761	2332
WETOKA	0	0	0	0	0	35	206	169	961	2369
ALBERTA	0	5	5	6	11	26	122	409	1091	1993

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

ALL CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	145	108	182	19	0.91	.
ALBERTA WEST CENTRAL	155	95	215	13	0.97	.
ATHABASCA	193	127	259	1	1.21	.
BANFF NATIONAL PARK	29	-27	85	26	0.18	.
BARONS-EUREKA-WARNER	154	103	204	14	0.96	.
BIG COUNTRY	116	50	182	22	0.73	.
CALGARY	176	160	192	5	1.10	YES
CHINOOK	104	68	140	24	0.65	.
DRUMHELLER	153	102	204	16	0.96	.
EDMONTON	169	154	184	7	1.06	.
FOOTHILLS	144	93	195	20	0.90	.
FORT MCMURRAY	181	20	342	3	1.13	.
HIGH LEVEL-FORT VERMILION	164	39	288	9	1.03	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	177	134	219	4	1.11	.
LETHBRIDGE	157	117	196	12	0.98	.
MINBURN-VERMILION	94	56	131	25	0.59	.
MOUNT VIEW	189	141	238	2	1.18	.
NORTH EASTERN ALBERTA	152	104	199	17	0.95	.
PEACE RIVER	168	113	222	8	1.05	.
RED DEER REGIONAL	158	127	188	10	0.99	.
SOUTHEASTERN ALBERTA	158	123	194	11	0.99	.
SOUTH PEACE	115	77	154	23	0.72	.
STONY PLAIN-LAC STE. ANNE	131	89	172	21	0.82	.
STURGEON	172	133	210	6	1.08	.
VEGREVILLE	154	108	199	15	0.96	.
WETOKA	152	106	198	18	0.95	.
ALBERTA	160	153	167			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

ALL CANCER, MALES, 1990

3.10

NUMBER OF MALE DEATHS, 1990

COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	3	1	1	4	9
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	3	1	0	4
ATHABASCA	0	0	0	0	0	0	0	0	2	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	1	0	1	0	1	3
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	0	1	1	10	5	15	12	44
CHINOOK	0	0	0	0	0	0	0	2	1	2	5
DRUMHELLER	0	0	0	0	0	0	0	0	3	0	3
EDMONTON	0	0	0	0	0	2	3	12	15	12	44
FOOTHILLS	0	0	0	0	0	0	0	1	2	0	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	1	2	1	4	8
LETHBRIDGE	0	0	0	0	0	0	0	2	3	1	6
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	2	2	4	8
NORTH EASTERN ALBERTA	0	0	0	0	1	0	1	0	0	0	2
PEACE RIVER	0	0	0	0	0	0	0	1	1	1	3
RED DEER REGIONAL	0	0	0	0	0	0	1	3	5	2	11
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	1	1	4	0	7
SOUTH PEACE	0	0	0	0	0	0	0	1	0	0	1
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	3	4
STURGEON	0	0	0	0	0	1	0	1	4	5	11
VEGREVILLE	0	0	0	0	0	0	0	0	0	3	3
WETOKA	0	0	0	0	0	0	0	1	0	1	2
ALBERTA	0	0	0	0	2	6	20	39	61	56	184

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

COLON CANCER

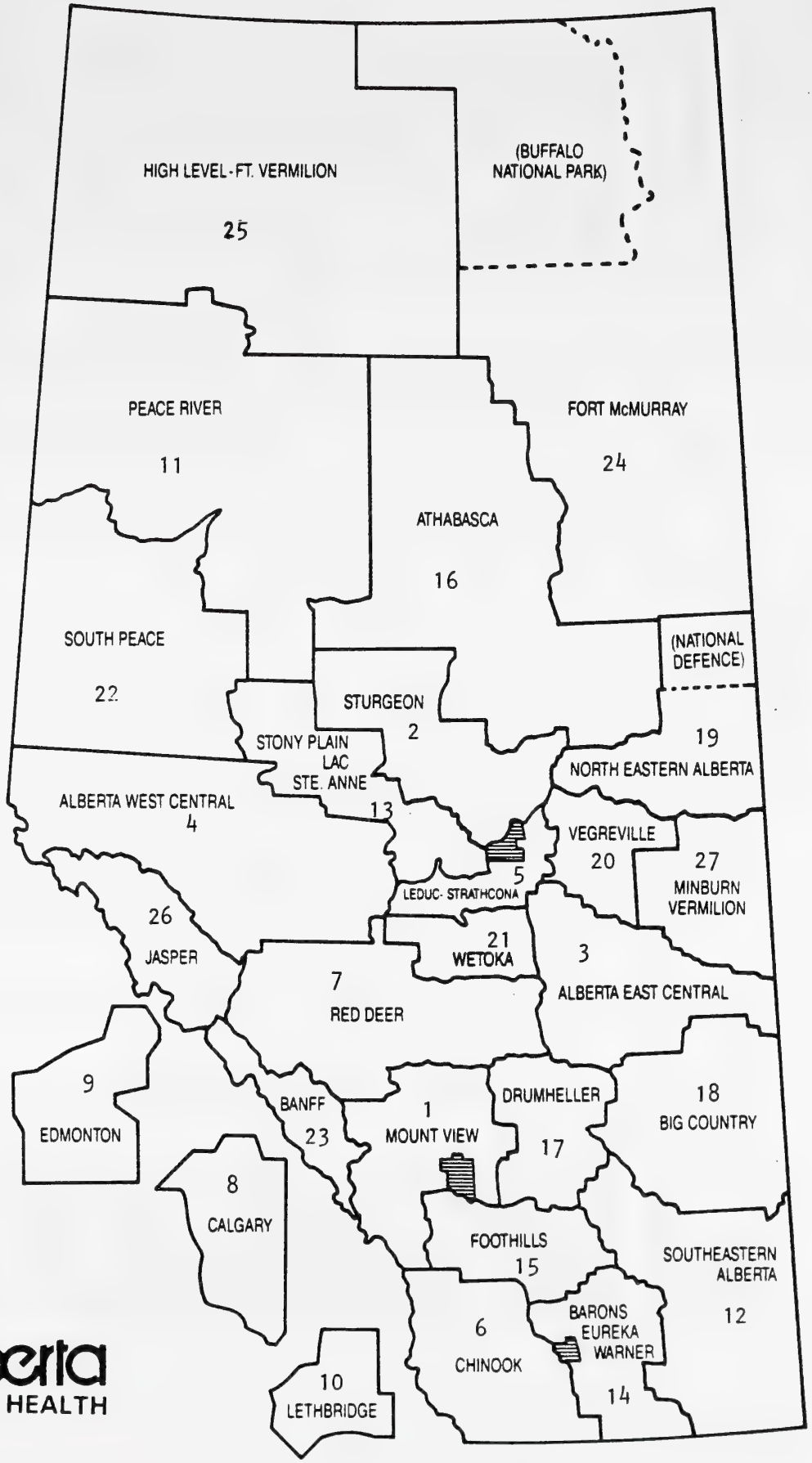
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	110	38	42	247
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	211	132	0
ATHABASCA	0	0	0	0	0	0	0	0	262	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	36	0	60	0	136
BIG COUNTRY	0	0	0	0	0	0	0	0	0	318
CALGARY	0	0	0	0	1	2	31	21	113	178
CHINOOK	0	0	0	0	0	0	0	114	66	191
DRUMHELLER	0	0	0	0	0	0	0	0	255	0
EDMONTON	0	0	0	0	0	5	10	51	108	152
FOOTHILLS	0	0	0	0	0	0	0	71	189	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	17	58	56	430
LETHBRIDGE	0	0	0	0	0	0	0	80	140	72
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	86	144	442
NORTH EASTERN ALBERTA	0	0	0	0	22	0	42	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	69	113	138
RED DEER REGIONAL	0	0	0	0	0	0	18	69	154	101
SOUTHEASTERN ALBERTA	0	0	0	0	0	18	27	31	155	0
SOUTH PEACE	0	0	0	0	0	0	0	44	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	76	403
STURGEON	0	0	0	0	0	11	0	28	194	399
VEGREVILLE	0	0	0	0	0	0	0	0	0	259
WETOKA	0	0	0	0	0	0	0	56	0	103
ALBERTA	0	0	0	0	1	3	17	42	103	159

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

COLON CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	23	7	38	3	1.53	.
ALBERTA WEST CENTRAL	22	0	44	4	1.47	.
ATHABASCA	13	-5	30	16	0.87	.
BANFF NATIONAL PARK	0	0	0	23	0.00	.
BARONS-EUREKA-WARNER	14	-2	30	14	0.93	.
BIG COUNTRY	9	-9	27	18	0.60	.
CALGARY	16	11	20	8	1.07	.
CHINOOK	17	2	33	6	1.13	.
DRUMHELLER	12	-2	26	17	0.80	.
EDMONTON	15	11	20	9	1.00	.
FOOTHILLS	14	-2	31	15	0.93	.
FORT MCMURRAY	0	0	0	24	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.00	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	21	6	36	5	1.40	.
LETHBRIDGE	15	3	27	10	1.00	.
MINBURN-VERMILION	0	0	0	27	0.00	.
MOUNT VIEW	26	8	44	1	1.73	.
NORTH EASTERN ALBERTA	8	-3	20	19	0.53	.
PEACE RIVER	15	-2	31	11	1.00	.
RED DEER REGIONAL	17	7	27	7	1.13	.
SOUTHEASTERN ALBERTA	15	4	27	12	1.00	.
SOUTH PEACE	3	-3	10	22	0.20	.
STONY PLAIN-LAC STE. ANNE	15	0	30	13	1.00	.
STURGEON	25	10	39	2	1.67	.
VEGREVILLE	7	-1	16	20	0.47	.
WETOKA	7	-3	17	21	0.47	.
ALBERTA	15	13	17			

HEALTH UNITS OF ALBERTA



Alberta
HEALTH

COLON CANCER, MALES, 1990

3.14

NUMBER OF MALE DEATHS, 1990

LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	2	4	8	5	19
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	3	2	3	9
ATHABASCA	0	0	0	0	0	0	1	1	3	1	6
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	2	3	2	7
BIG COUNTRY	0	0	0	0	0	0	0	1	2	1	4
CALGARY	0	0	0	0	0	0	9	46	53	35	143
CHINOOK	0	0	0	0	0	0	0	3	2	2	7
DRUMHELLER	0	0	0	0	0	0	0	1	5	3	9
EDMONTON	0	0	0	0	0	5	12	31	55	32	135
FOOTHILLS	0	0	0	0	0	0	1	2	4	2	9
FORT MCMURRAY	0	0	0	0	0	0	0	1	2	0	3
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	1	2	1	0	4
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	2	6	2	8	19
LETHBRIDGE	0	0	0	0	0	0	2	6	9	2	19
MINBURN-VERMILION	0	0	0	0	0	0	1	3	3	2	9
MOUNT VIEW	0	0	0	0	0	0	1	3	5	2	11
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	3	4	0	8
PEACE RIVER	0	0	0	0	0	0	2	2	3	5	12
RED DEER REGIONAL	0	0	0	0	0	0	1	7	12	12	32
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	2	12	9	23
SOUTH PEACE	0	0	0	0	0	0	1	1	2	4	8
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	4	6	4	14
STURGEON	0	0	0	0	0	0	1	4	11	12	28
VEGREVILLE	0	0	0	0	0	0	1	5	6	10	22
WETOKA	0	0	0	0	0	0	2	1	1	6	10
ALBERTA	0	0	0	0	0	6	42	144	216	162	570

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

LUNG CANCER

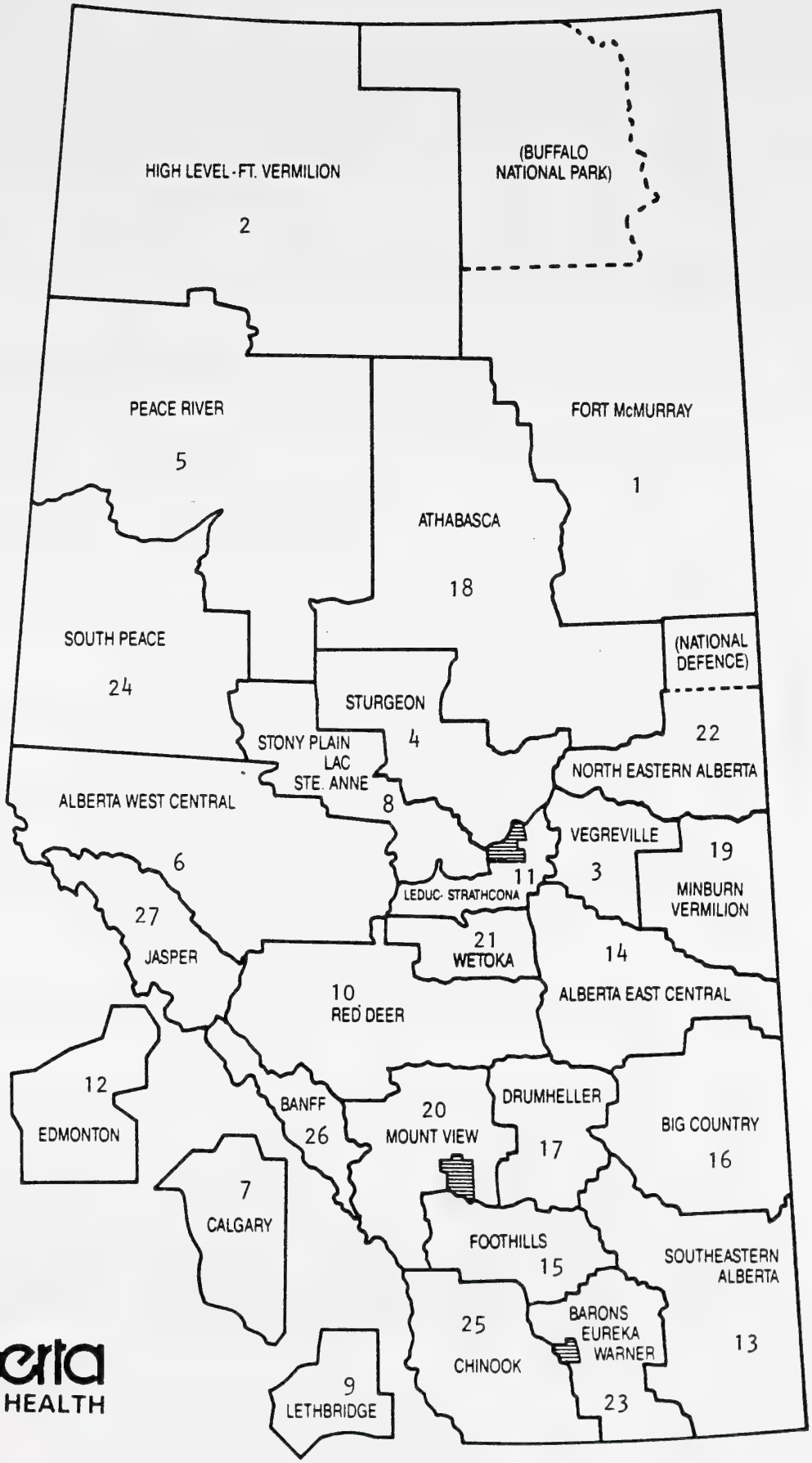
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	73	152	336	309
ALBERTA WEST CENTRAL	0	0	0	0	0	0	46	211	264	708
ATHABASCA	0	0	0	0	0	0	66	76	393	188
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	119	269	272
BIG COUNTRY	0	0	0	0	0	0	0	140	408	318
CALGARY	0	0	0	0	0	0	28	194	398	518
CHINOOK	0	0	0	0	0	0	0	172	133	191
DRUMHELLER	0	0	0	0	0	0	0	70	425	407
EDMONTON	0	0	0	0	0	12	42	132	395	406
FOOTHILLS	0	0	0	0	0	0	56	142	378	280
FORT MCMURRAY	0	0	0	0	0	0	0	180	1681	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	184	560	538	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	9	34	173	112	859
LETHBRIDGE	0	0	0	0	0	0	73	239	421	143
MINBURN-VERMILION	0	0	0	0	0	0	53	179	229	213
MOUNT VIEW	0	0	0	0	0	0	31	130	360	221
NORTH EASTERN ALBERTA	0	0	0	0	0	0	42	167	298	0
PEACE RIVER	0	0	0	0	0	0	97	138	338	690
RED DEER REGIONAL	0	0	0	0	0	0	18	160	368	604
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	63	464	629
SOUTH PEACE	0	0	0	0	0	0	32	44	156	425
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	167	458	537
STURGEON	0	0	0	0	0	0	19	114	532	958
VEGREVILLE	0	0	0	0	0	0	66	327	380	864
WETOKA	0	0	0	0	0	0	103	56	74	618
ALBERTA	0	0	0	0	0	3	35	155	365	461

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

LUNG CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	44	23	64	14	0.96	.
ALBERTA WEST CENTRAL	53	18	88	6	1.15	.
ATHABASCA	36	7	66	18	0.78	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	30	8	52	23	0.65	.
BIG COUNTRY	39	1	78	16	0.85	.
CALGARY	51	43	60	7	1.11	.
CHINOOK	25	6	43	25	0.54	.
DRUMHELLER	37	13	62	17	0.80	.
EDMONTON	46	39	54	12	1.00	.
FOOTHILLS	42	14	70	15	0.91	.
FORT MCMURRAY	94	-21	209	1	2.04	.
HIGH LEVEL-FORT VERMILION	86	1	171	2	1.87	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	48	26	70	11	1.04	.
LETHBRIDGE	49	27	72	9	1.07	.
MINBURN-VERMILION	36	12	60	19	0.78	.
MOUNT VIEW	36	15	58	20	0.78	.
NORTH EASTERN ALBERTA	31	9	53	22	0.67	.
PEACE RIVER	56	24	88	5	1.22	.
RED DEER REGIONAL	49	32	66	10	1.07	.
SOUTHEASTERN ALBERTA	45	27	63	13	0.98	.
SOUTH PEACE	26	8	44	24	0.57	.
STONY PLAIN-LAC STE. ANNE	50	24	76	8	1.09	.
STURGEON	63	40	87	4	1.37	.
VEGREVILLE	74	41	107	3	1.61	YES
WETOKA	36	13	58	21	0.78	.
ALBERTA	46	42	50			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

NUMBER OF MALE DEATHS, 1990

DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	0	1	2
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	2	2
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	0	0	2	3	3	7	7	22
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	1	1
EDMONTON	0	0	0	1	1	1	0	5	6	19	33
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	3	3
LETHBRIDGE	0	0	0	0	0	0	0	1	1	1	3
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	1	1
MOUNT VIEW	0	0	0	0	0	0	0	0	0	3	3
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	0	0	1
PEACE RIVER	0	0	0	0	0	0	1	0	0	0	1
RED DEER REGIONAL	0	0	0	0	0	0	0	0	0	5	5
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	2	0	5	7
SOUTH PEACE	0	0	0	0	0	0	0	0	1	6	7
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	1	0	2	2	5
STURGEON	0	0	0	0	0	0	0	1	1	0	2
VEGREVILLE	0	0	0	0	0	0	0	0	0	4	4
WETOKA	0	0	0	0	0	0	0	0	0	2	2
ALBERTA	0	0	0	1	1	3	5	14	18	63	105

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

DIABETES MELLITUS

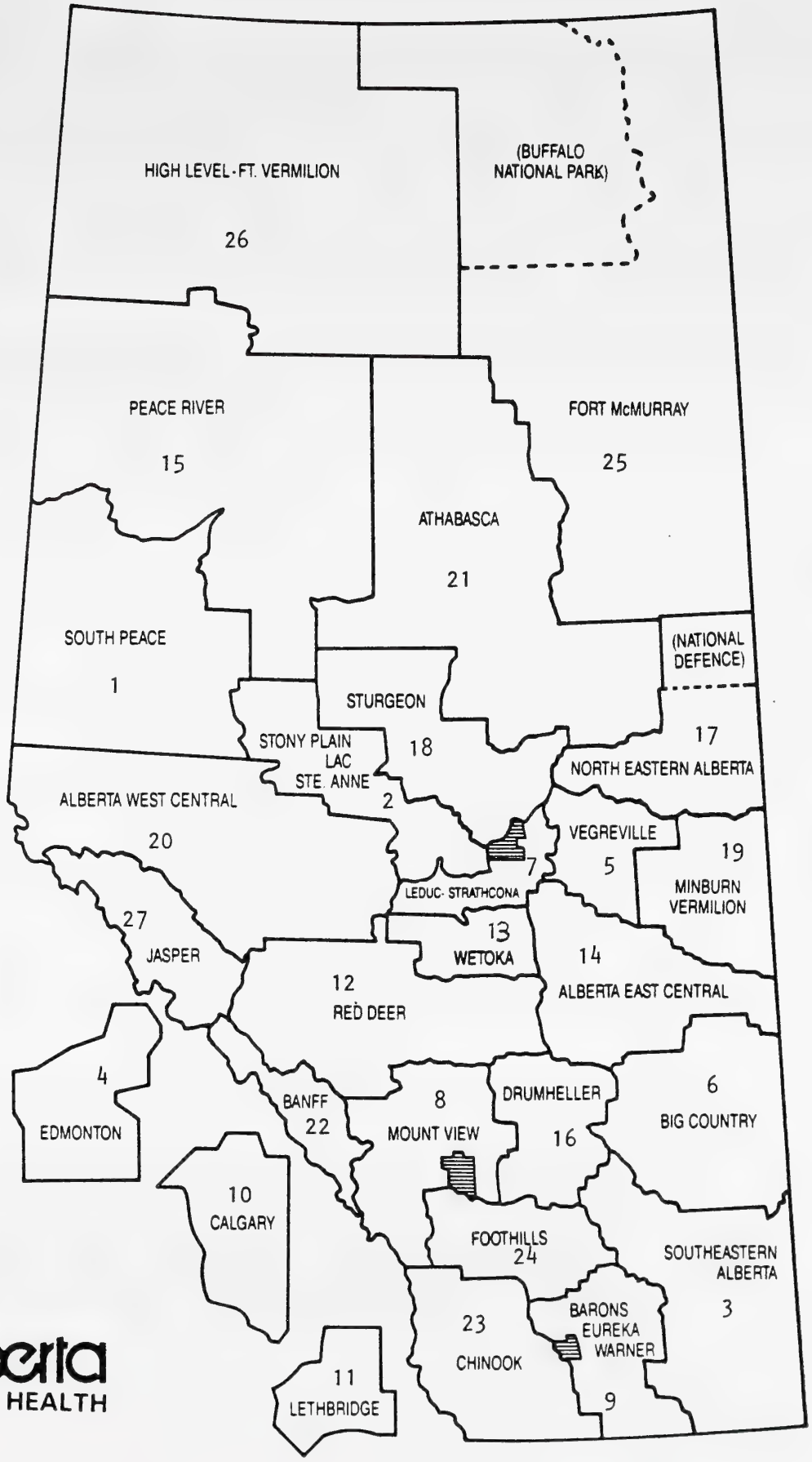
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	38	0	62
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	272
BIG COUNTRY	0	0	0	0	0	0	0	0	0	318
CALGARY	0	0	0	0	0	4	9	13	53	104
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	136
EDMONTON	0	0	0	2	2	2	0	21	43	241
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	322
LETHBRIDGE	0	0	0	0	0	0	0	40	47	72
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	106
MOUNT VIEW	0	0	0	0	0	0	0	0	0	332
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	56	0	0
PEACE RIVER	0	0	0	0	0	0	49	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	0	0	252
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	63	0	350
SOUTH PEACE	0	0	0	0	0	0	0	0	78	637
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	27	0	153	268
STURGEON	0	0	0	0	0	0	0	28	48	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	345
WETOKA	0	0	0	0	0	0	0	0	0	206
ALBERTA	0	0	0	1	0	2	4	15	30	179

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

DIABETES MELLITUS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	5	-2	11	14	0.56	.
ALBERTA WEST CENTRAL	0	0	0	20	0.00	.
ATHABASCA	0	0	0	21	0.00	.
BANFF NATIONAL PARK	0	0	0	22	0.00	.
BARONS-EUREKA-WARNER	8	-3	18	9	0.89	.
BIG COUNTRY	9	-9	27	6	1.00	.
CALGARY	8	5	11	10	0.89	.
CHINOOK	0	0	0	23	0.00	.
DRUMHELLER	4	-4	11	16	0.44	.
EDMONTON	12	8	15	4	1.33	.
FOOTHILLS	0	0	0	24	0.00	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	9	-1	20	7	1.00	.
LETHBRIDGE	7	-1	16	11	0.78	.
MINBURN-VERMILION	3	-3	9	19	0.33	.
MOUNT VIEW	9	-1	20	8	1.00	.
NORTH EASTERN ALBERTA	4	-4	12	17	0.44	.
PEACE RIVER	5	-5	14	15	0.56	.
RED DEER REGIONAL	7	1	13	12	0.78	.
SOUTHEASTERN ALBERTA	15	4	26	3	1.67	.
SOUTH PEACE	22	6	38	1	2.44	.
STONY PLAIN-LAC STE. ANNE	18	2	33	2	2.00	.
STURGEON	4	-2	11	18	0.44	.
VEGREVILLE	10	0	19	5	1.11	.
WETOKA	6	-2	14	13	0.67	.
ALBERTA	9	7	10			

HEALTH UNITS OF ALBERTA



Alberta
HEALTH

NUMBER OF MALE DEATHS, 1990

ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	2	6	16	48	72
ALBERTA WEST CENTRAL	0	0	0	0	0	2	2	5	10	15	34
ATHABASCA	0	0	0	0	0	0	0	2	9	10	21
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	1	1	2
BARONS-EUREKA-WARNER	0	0	0	0	0	0	2	3	10	15	30
BIG COUNTRY	0	0	0	0	0	0	0	0	3	6	9
CALGARY	0	0	0	0	0	6	28	61	97	152	344
CHINOOK	0	0	0	0	0	2	3	4	13	24	46
DRUMHELLER	0	0	0	0	0	2	0	4	11	21	38
EDMONTON	0	0	0	0	0	15	34	67	116	187	419
FOOTHILLS	0	0	0	0	0	0	1	4	11	18	34
FORT MCMURRAY	0	0	0	0	0	0	2	2	1	1	6
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	1	0	2	2	0	5
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	3	3
LEDUC-STRATHCONA	0	0	0	0	0	3	2	12	20	36	73
LETHBRIDGE	0	0	0	0	0	2	2	9	11	32	56
MINBURN-VERMILION	0	0	0	0	0	0	0	0	10	26	36
MOUNT VIEW	0	0	0	0	1	0	1	5	8	15	30
NORTH EASTERN ALBERTA	0	0	0	0	0	2	0	9	8	22	41
PEACE RIVER	0	0	0	0	0	0	3	5	5	14	27
RED DEER REGIONAL	0	0	0	0	0	3	3	8	27	43	84
SOUTHEASTERN ALBERTA	0	0	0	0	0	2	6	14	28	40	90
SOUTH PEACE	0	0	0	0	0	3	1	8	9	20	41
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	2	6	11	14	33
STURGEON	0	0	0	0	2	7	5	12	21	32	79
VEGREVILLE	0	0	0	0	0	0	0	4	13	35	52
WETOKA	0	0	0	0	0	1	1	6	7	23	38
ALBERTA	0	0	0	0	3	51	100	258	478	853	1743

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

ISCHEMIC HEART DISEASE

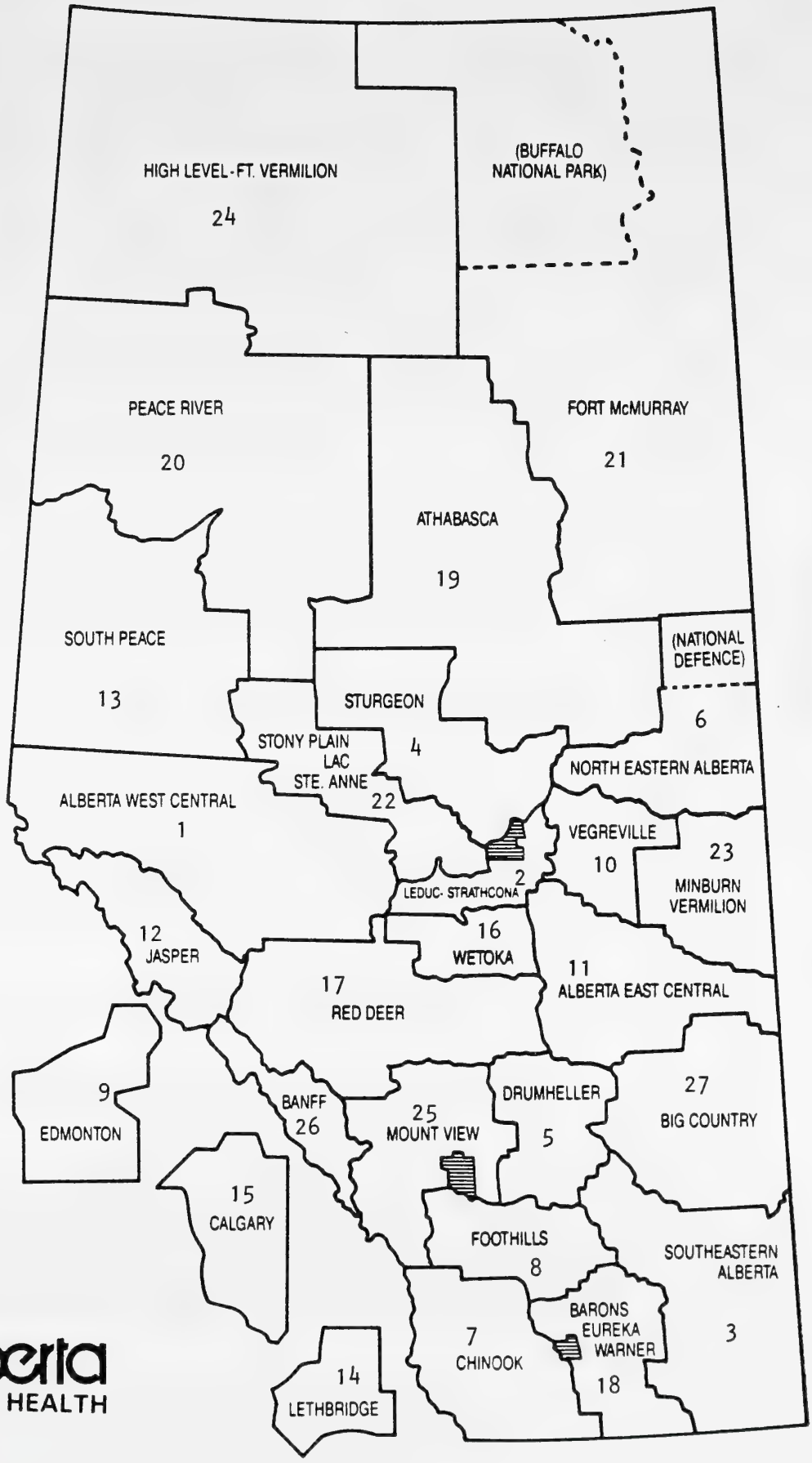
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	73	229	671	2963
ALBERTA WEST CENTRAL	0	0	0	0	0	61	93	351	1319	3538
ATHABASCA	0	0	0	0	0	0	0	152	1180	1876
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	917	1724
BARONS-EUREKA-WARNER	0	0	0	0	0	0	96	179	895	2038
BIG COUNTRY	0	0	0	0	0	0	0	0	612	1911
CALGARY	0	0	0	0	0	11	87	257	729	2252
CHINOOK	0	0	0	0	0	72	156	229	864	2292
DRUMHELLER	0	0	0	0	0	75	0	280	935	2849
EDMONTON	0	0	0	0	0	35	119	284	834	2371
FOOTHILLS	0	0	0	0	0	0	56	283	1039	2517
FORT MCMURRAY	0	0	0	0	0	0	124	360	840	1370
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	108	0	560	1075	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	4762
LEDUC-STRATHCONA	0	0	0	0	0	27	34	347	1116	3867
LETHBRIDGE	0	0	0	0	0	46	73	358	515	2296
MINBURN-VERMILION	0	0	0	0	0	0	0	0	764	2769
MOUNT VIEW	0	0	0	0	18	0	31	216	577	1659
NORTH EASTERN ALBERTA	0	0	0	0	0	58	0	501	596	2910
PEACE RIVER	0	0	0	0	0	0	146	345	564	1931
RED DEER REGIONAL	0	0	0	0	0	32	53	183	829	2163
SOUTHEASTERN ALBERTA	0	0	0	0	0	36	164	438	1083	2797
SOUTH PEACE	0	0	0	0	0	59	32	355	700	2123
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	54	250	840	1879
STURGEON	0	0	0	0	25	74	96	342	1016	2554
VEGREVILLE	0	0	0	0	0	0	0	262	824	3022
WETOKA	0	0	0	0	0	35	52	339	517	2369
ALBERTA	0	0	0	0	1	26	83	277	807	2425

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

ISCHEMIC HEART DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	141	108	174	11	1.00	.
ALBERTA WEST CENTRAL	209	139	280	1	1.48	YES
ATHABASCA	122	69	174	19	0.87	.
BANFF NATIONAL PARK	93	-36	222	26	0.66	.
BARONS-EUREKA-WARNER	124	79	168	18	0.88	.
BIG COUNTRY	84	29	139	27	0.60	.
CALGARY	129	115	142	15	0.91	.
CHINOOK	151	106	196	7	1.07	.
DRUMHELLER	159	108	210	5	1.13	.
EDMONTON	146	132	160	9	1.04	.
FOOTHILLS	148	98	199	8	1.05	.
FORT MCMURRAY	119	1	236	21	0.84	.
HIGH LEVEL-FORT VERMILION	111	13	210	24	0.79	.
JASPER NATIONAL PARK	136	-18	289	12	0.96	.
LEDUC-STRATHCONA	198	152	244	2	1.40	YES
LETHBRIDGE	132	96	167	14	0.94	.
MINBURN-VERMILION	116	78	153	23	0.82	.
MOUNT VIEW	98	63	133	25	0.70	.
NORTH EASTERN ALBERTA	159	110	207	6	1.13	.
PEACE RIVER	122	76	169	20	0.87	.
RED DEER REGIONAL	126	99	152	17	0.89	.
SOUTHEASTERN ALBERTA	187	148	225	3	1.33	YES
SOUTH PEACE	133	92	174	13	0.94	.
STONY PLAIN-LAC STE. ANNE	118	78	159	22	0.84	.
STURGEON	173	135	212	4	1.23	.
VEGREVILLE	145	105	186	10	1.03	.
WETOKA	128	87	170	16	0.91	.
ALBERTA	141	135	148			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

NUMBER OF MALE DEATHS, 1990

CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	2	10	13
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	2	1	4
ATHABASCA	0	0	0	0	0	0	1	1	0	2	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	0	11	12
BIG COUNTRY	0	0	0	0	0	0	1	0	3	2	6
CALGARY	0	0	0	0	1	0	1	12	19	66	99
CHINOOK	0	0	0	0	0	0	0	1	6	9	16
DRUMHELLER	0	0	0	0	0	0	0	0	1	6	7
EDMONTON	0	0	1	1	2	2	7	9	29	62	113
FOOTHILLS	0	0	0	0	0	0	0	1	1	7	9
FORT MCMURRAY	0	0	0	0	1	0	0	0	1	3	5
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	0	1	3	3	8
LETHBRIDGE	0	0	0	0	0	0	1	1	4	12	18
MINBURN-VERMILION	0	0	0	0	0	0	0	0	3	8	11
MOUNT VIEW	0	0	0	0	0	0	0	3	2	5	10
NORTH EASTERN ALBERTA	0	0	1	0	0	1	0	0	2	4	8
PEACE RIVER	0	0	0	0	0	0	0	0	1	5	6
RED DEER REGIONAL	0	0	0	0	0	0	1	1	5	20	27
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	2	17	19
SOUTH PEACE	0	0	0	0	0	0	0	1	1	6	8
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	3	5	9
STURGEON	0	0	0	0	0	0	0	4	2	14	20
VEGREVILLE	0	0	0	0	0	0	0	0	1	9	10
WETOKA	0	0	0	0	0	0	0	0	5	15	20
ALBERTA	0	0	2	1	4	4	12	39	98	302	462

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

CEREBROVASCULAR DISEASE

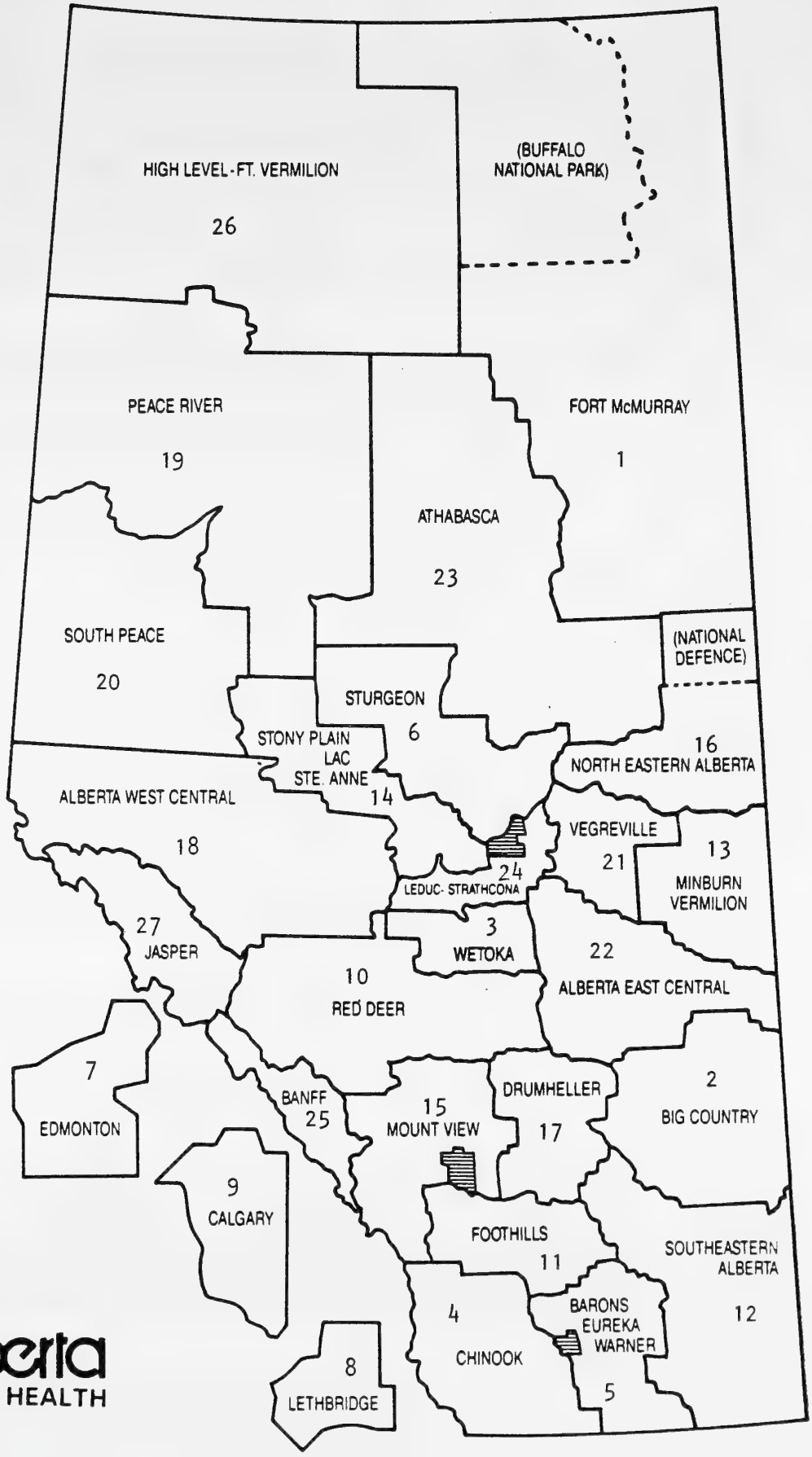
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	38	84	617
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	70	264	236
ATHABASCA	0	0	0	0	0	0	66	76	0	375
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	60	0	1495
BIG COUNTRY	0	0	0	0	0	0	146	0	612	637
CALGARY	0	0	0	0	1	0	3	51	143	978
CHINOOK	0	0	0	0	0	0	0	57	399	860
DRUMHELLER	0	0	0	0	0	0	0	0	85	814
EDMONTON	0	0	3	2	3	5	24	38	208	786
FOOTHILLS	0	0	0	0	0	0	0	71	94	979
FORT MCMURRAY	0	0	0	0	22	0	0	0	840	4110
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	9	0	29	167	322
LETHBRIDGE	0	0	0	0	0	0	36	40	187	861
MINBURN-VERMILION	0	0	0	0	0	0	0	0	229	852
MOUNT VIEW	0	0	0	0	0	0	0	130	144	553
NORTH EASTERN ALBERTA	0	0	23	0	0	29	0	0	149	529
PEACE RIVER	0	0	0	0	0	0	0	0	113	690
RED DEER REGIONAL	0	0	0	0	0	0	18	23	154	1006
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	77	1189
SOUTH PEACE	0	0	0	0	0	0	0	44	78	637
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	42	229	671
STURGEON	0	0	0	0	0	0	0	114	97	1117
VEGREVILLE	0	0	0	0	0	0	0	0	63	777
WETOKA	0	0	0	0	0	0	0	0	370	1545
ALBERTA	0	0	1	1	2	2	10	42	165	859

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

CEREBROVASCULAR DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	24	11	38	22	0.65	.
ALBERTA WEST CENTRAL	25	0	49	18	0.68	.
ATHABASCA	23	0	45	23	0.62	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS-EUREKA-WARNER	47	20	74	5	1.27	.
BIG COUNTRY	62	12	112	2	1.68	.
CALGARY	39	31	47	9	1.05	.
CHINOOK	48	24	72	4	1.30	.
DRUMHELLER	27	7	47	17	0.73	.
EDMONTON	40	32	47	7	1.08	.
FOOTHILLS	38	13	63	11	1.03	.
FORT MCMURRAY	162	7	316	1	4.38	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	21	6	36	24	0.57	.
LETHBRIDGE	40	21	59	8	1.08	.
MINBURN-VERMILION	35	14	56	13	0.95	.
MOUNT VIEW	32	12	53	15	0.86	.
NORTH EASTERN ALBERTA	30	9	52	16	0.81	.
PEACE RIVER	25	5	45	19	0.68	.
RED DEER REGIONAL	39	25	54	10	1.05	.
SOUTHEASTERN ALBERTA	38	21	54	12	1.03	.
SOUTH PEACE	25	8	43	20	0.68	.
STONY PLAIN-LAC STE. ANNE	33	11	55	14	0.89	.
STURGEON	45	25	65	6	1.22	.
VEGREVILLE	25	10	41	21	0.68	.
WETOKA	62	35	89	3	1.68	YES
ALBERTA	37	34	41			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

NUMBER OF MALE DEATHS, 1990

PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	3	10	13
ALBERTA WEST CENTRAL	0	0	1	0	0	0	0	0	0	1	2
ATHABASCA	0	1	0	0	0	0	0	0	0	3	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	2	3	5
BIG COUNTRY	0	0	0	0	0	0	0	1	0	1	2
CALGARY	0	0	0	0	1	0	2	2	7	40	52
CHINOOK	0	0	0	0	0	0	0	0	1	7	8
DRUMHELLER	0	0	0	0	0	0	0	1	2	3	6
EDMONTON	1	0	0	0	1	1	1	3	9	35	51
FOOTHILLS	0	0	0	0	0	0	0	0	1	5	6
FORT MCMURRAY	0	0	0	0	0	1	0	0	0	2	3
HIGH LEVEL-FORT VERMILION	1	0	0	0	0	0	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	2	2	4
LETHBRIDGE	0	0	0	0	0	0	0	1	3	9	13
MINBURN-VERMILION	0	0	0	0	0	0	0	1	0	3	4
MOUNT VIEW	0	0	0	0	1	0	0	0	2	9	12
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	1	2
PEACE RIVER	0	0	0	0	0	0	0	2	1	3	6
RED DEER REGIONAL	0	0	0	0	0	0	1	1	4	12	18
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	2	8	10
SOUTH PEACE	0	0	0	0	1	0	0	0	0	0	1
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	3	3
STURGEON	0	0	0	0	0	0	0	0	2	0	2
VEGREVILLE	0	0	0	0	0	0	0	0	0	2	2
WETOKA	0	0	0	0	0	0	0	0	1	4	5
ALBERTA	2	1	1	0	4	2	4	12	43	166	235

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

PNEUMONIA

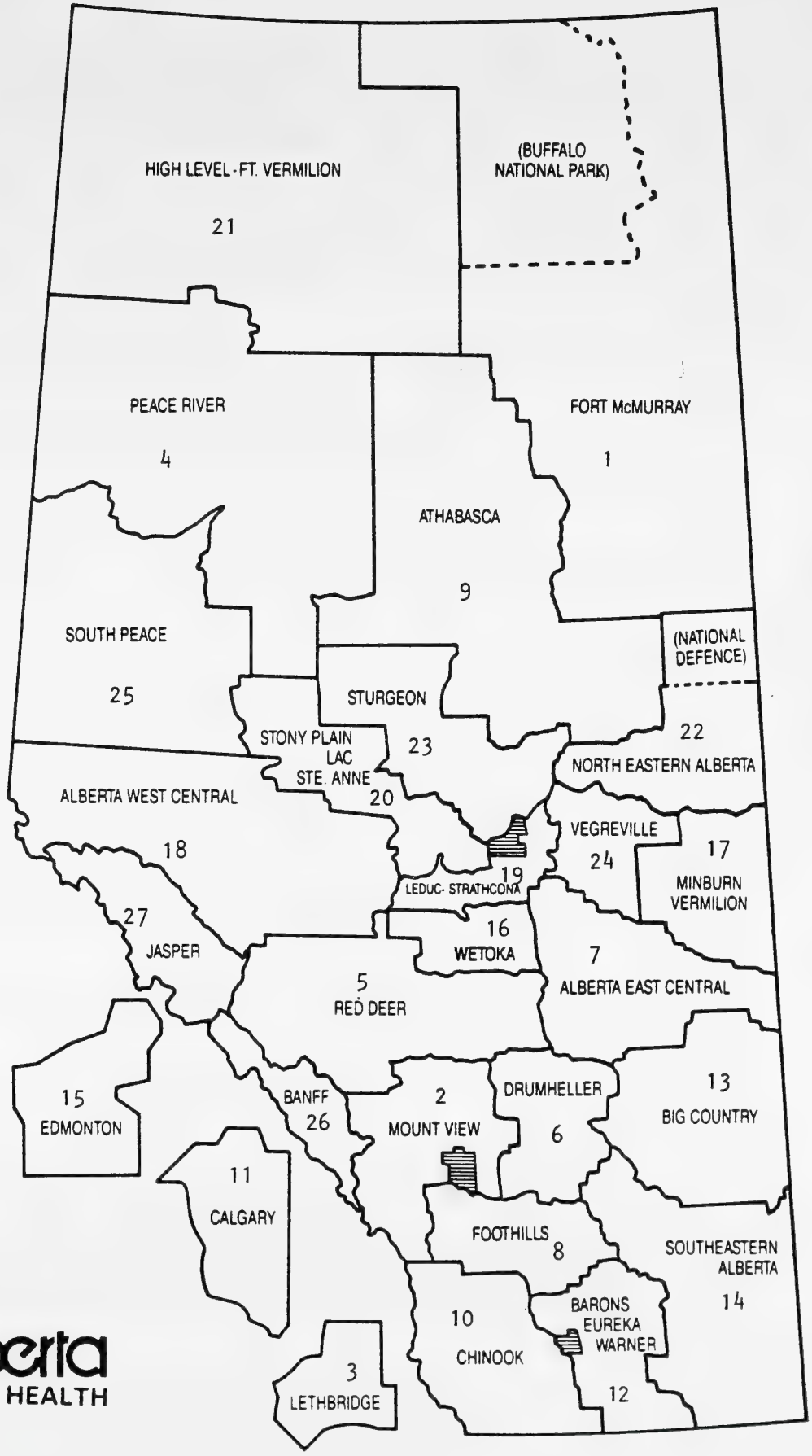
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	126	617
ALBERTA WEST CENTRAL	0	0	26	0	0	0	0	0	0	236
ATHABASCA	0	80	0	0	0	0	0	0	0	563
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	179	408
BIG COUNTRY	0	0	0	0	0	0	0	140	0	318
CALGARY	0	0	0	0	1	0	6	8	53	593
CHINOOK	0	0	0	0	0	0	0	0	66	669
DRUMHELLER	0	0	0	0	0	0	0	70	170	407
EDMONTON	19	0	0	0	2	2	3	13	65	444
FOOTHILLS	0	0	0	0	0	0	0	0	94	699
FORT MCMURRAY	0	0	0	0	0	25	0	0	0	2740
HIGH LEVEL-FORT VERMILION	467	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	112	215
LETHBRIDGE	0	0	0	0	0	0	0	40	140	646
MINBURN-VERMILION	0	0	0	0	0	0	0	60	0	319
MOUNT VIEW	0	0	0	0	18	0	0	0	144	996
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	75	132
PEACE RIVER	0	0	0	0	0	0	0	138	113	414
RED DEER REGIONAL	0	0	0	0	0	0	18	23	123	604
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	77	559
SOUTH PEACE	0	0	0	0	16	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	403
STURGEON	0	0	0	0	0	0	0	0	97	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	173
WETOKA	0	0	0	0	0	0	0	0	74	412
ALBERTA	9	1	1	0	2	1	3	13	73	472

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

PNEUMONIA

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	24	11	36	7	1.26	.
ALBERTA WEST CENTRAL	11	-5	26	18	0.58	.
ATHABASCA	22	0	43	9	1.16	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	20	2	38	12	1.05	.
BIG COUNTRY	20	-8	47	13	1.05	.
CALGARY	21	15	27	11	1.11	.
CHINOOK	22	7	38	10	1.16	.
DRUMHELLER	25	5	45	6	1.32	.
EDMONTON	18	13	23	15	0.95	.
FOOTHILLS	24	5	44	8	1.26	.
FORT MCMURRAY	82	-26	191	1	4.32	.
HIGH LEVEL-FORT VERMILION	8	-8	25	21	0.42	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	11	0	23	19	0.58	.
LETHBRIDGE	28	13	44	3	1.47	.
MINBURN-VERMILION	14	0	27	17	0.74	.
MOUNT VIEW	39	17	61	2	2.05	YES
NORTH EASTERN ALBERTA	7	-3	18	22	0.37	.
PEACE RIVER	28	5	50	4	1.47	.
RED DEER REGIONAL	27	14	39	5	1.42	.
SOUTHEASTERN ALBERTA	20	7	32	14	1.05	.
SOUTH PEACE	3	-3	9	25	0.16	.
STONY PLAIN-LAC STE. ANNE	11	-2	24	20	0.58	.
STURGEON	5	-2	11	23	0.26	.
VEGREVILLE	5	-2	12	24	0.26	.
WETOKA	15	2	29	16	0.79	.
ALBERTA	19	17	21			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

NUMBER OF MALE DEATHS, 1990

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	2	6	8	16
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	2	2	5
ATHABASCA	0	0	0	0	0	0	0	0	1	4	5
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	1	2	4
BIG COUNTRY	0	0	0	0	0	0	0	0	1	1	2
CALGARY	0	0	0	2	0	0	1	11	19	62	95
CHINOOK	0	0	0	0	0	0	0	0	1	7	8
DRUMHELLER	0	0	0	0	0	0	0	0	4	5	9
EDMONTON	0	0	0	0	0	0	2	9	25	58	94
FOOTHILLS	0	0	0	0	0	0	0	0	4	9	13
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	4	7	11
LETHBRIDGE	0	0	0	0	0	0	0	2	8	7	17
MINBURN-VERMILION	0	0	0	0	0	0	2	1	1	6	10
MOUNT VIEW	0	0	0	0	0	0	0	1	1	13	15
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	2	5	7
PEACE RIVER	0	0	0	0	0	0	0	0	1	6	7
RED DEER REGIONAL	0	0	0	0	0	0	0	3	11	8	22
SOUTHEASTERN ALBERTA	0	0	0	0	1	0	0	0	3	12	16
SOUTH PEACE	0	0	0	0	0	0	1	0	2	3	6
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	2	5	7
STURGEON	0	0	0	0	0	1	0	1	6	7	15
VEGREVILLE	0	0	0	0	0	0	0	0	1	4	5
WETOKA	0	0	0	1	0	0	0	1	4	4	10
ALBERTA	0	0	0	3	1	1	6	33	110	245	399

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

CHRONIC OBSTRUCTIVE LUNG DISEASE

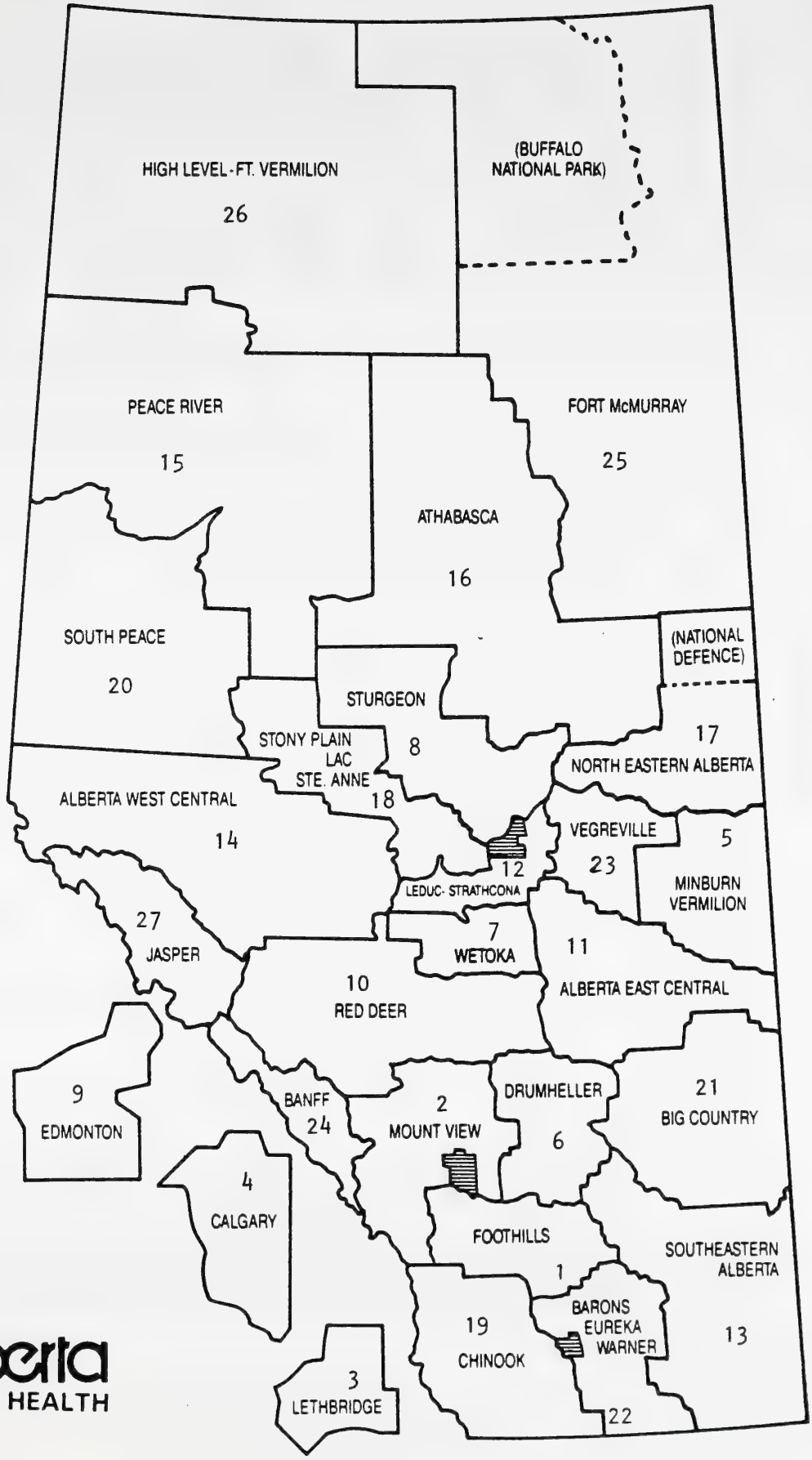
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	76	252	494
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	70	264	472
ATHABASCA	0	0	0	0	0	0	0	0	131	750
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	60	90	272
BIG COUNTRY	0	0	0	0	0	0	0	0	204	318
CALGARY	0	0	0	4	0	0	3	46	143	918
CHINOOK	0	0	0	0	0	0	0	0	66	669
DRUMHELLER	0	0	0	0	0	0	0	0	340	678
EDMONTON	0	0	0	0	0	0	7	38	180	735
FOOTHILLS	0	0	0	0	0	0	0	0	378	1259
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	223	752
LETHBRIDGE	0	0	0	0	0	0	0	80	374	502
MINBURN-VERMILION	0	0	0	0	0	0	106	60	76	639
MOUNT VIEW	0	0	0	0	0	0	0	43	72	1438
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	149	661
PEACE RIVER	0	0	0	0	0	0	0	0	113	828
RED DEER REGIONAL	0	0	0	0	0	0	0	69	338	402
SOUTHEASTERN ALBERTA	0	0	0	0	14	0	0	0	116	839
SOUTH PEACE	0	0	0	0	0	0	32	0	156	318
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	153	671
STURGEON	0	0	0	0	0	11	0	28	290	559
VEGREVILLE	0	0	0	0	0	0	0	0	63	345
WETOKA	0	0	0	36	0	0	0	56	296	412
ALBERTA	0	0	0	2	0	1	5	35	186	697

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	32	16	48	11	1.00	.
ALBERTA WEST CENTRAL	31	4	59	14	0.97	.
ATHABASCA	28	3	52	16	0.88	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS-EUREKA-WARNER	17	0	33	22	0.53	.
BIG COUNTRY	19	-7	45	21	0.59	.
CALGARY	37	30	45	4	1.16	.
CHINOOK	22	7	38	19	0.69	.
DRUMHELLER	36	12	59	6	1.13	.
EDMONTON	33	26	40	9	1.03	.
FOOTHILLS	54	25	83	1	1.69	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	32	13	51	12	1.00	.
LETHBRIDGE	38	20	57	3	1.19	.
MINBURN-VERMILION	37	13	60	5	1.16	.
MOUNT VIEW	48	24	72	2	1.50	.
NORTH EASTERN ALBERTA	26	7	45	17	0.81	.
PEACE RIVER	29	7	51	15	0.91	.
RED DEER REGIONAL	33	19	47	10	1.03	.
SOUTHEASTERN ALBERTA	32	16	48	13	1.00	.
SOUTH PEACE	20	4	36	20	0.63	.
STONY PLAIN-LAC STE. ANNE	26	7	46	18	0.81	.
STURGEON	34	17	51	8	1.06	.
VEGREVILLE	13	2	24	23	0.41	.
WETOKA	36	13	59	7	1.13	.
ALBERTA	32	29	35			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

NUMBER OF MALE DEATHS, 1990

LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	1	1	1	0	3
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	0	1	0	2
ATHABASCA	0	0	0	0	0	0	1	1	0	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	2	0	3
BIG COUNTRY	0	0	0	0	0	0	0	0	2	0	2
CALGARY	0	0	0	0	1	1	9	10	8	3	32
CHINOOK	0	0	0	0	0	0	2	0	1	0	3
DRUMHELLER	0	0	0	0	0	0	0	1	1	0	2
EDMONTON	0	0	0	0	2	0	9	11	17	4	43
FOOTHILLS	0	0	0	0	0	0	0	1	0	1	2
FORT MCMURRAY	0	0	0	0	0	1	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1	0	0	1
LEDUC-STRATHCONA	0	0	0	0	0	0	0	1	0	1	2
LETHBRIDGE	0	0	0	0	0	0	1	2	2	1	6
MINBURN-VERMILION	0	0	0	0	0	0	0	2	0	0	2
MOUNT VIEW	0	0	0	0	0	0	0	1	0	0	1
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	1	0	2
PEACE RIVER	0	0	0	0	0	1	0	0	0	0	1
RED DEER REGIONAL	0	0	0	0	0	0	0	1	0	1	2
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	2	2	0	0	5
SOUTH PEACE	0	0	0	0	0	1	0	1	0	0	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	0	1
STURGEON	0	0	0	0	0	0	0	2	0	0	2
VEGREVILLE	0	0	0	0	0	0	1	0	1	0	2
WETOKA	0	0	0	0	0	0	1	0	1	0	2
ALBERTA	0	0	0	0	3	6	27	40	39	11	126

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

LIVER CIRRHOSIS

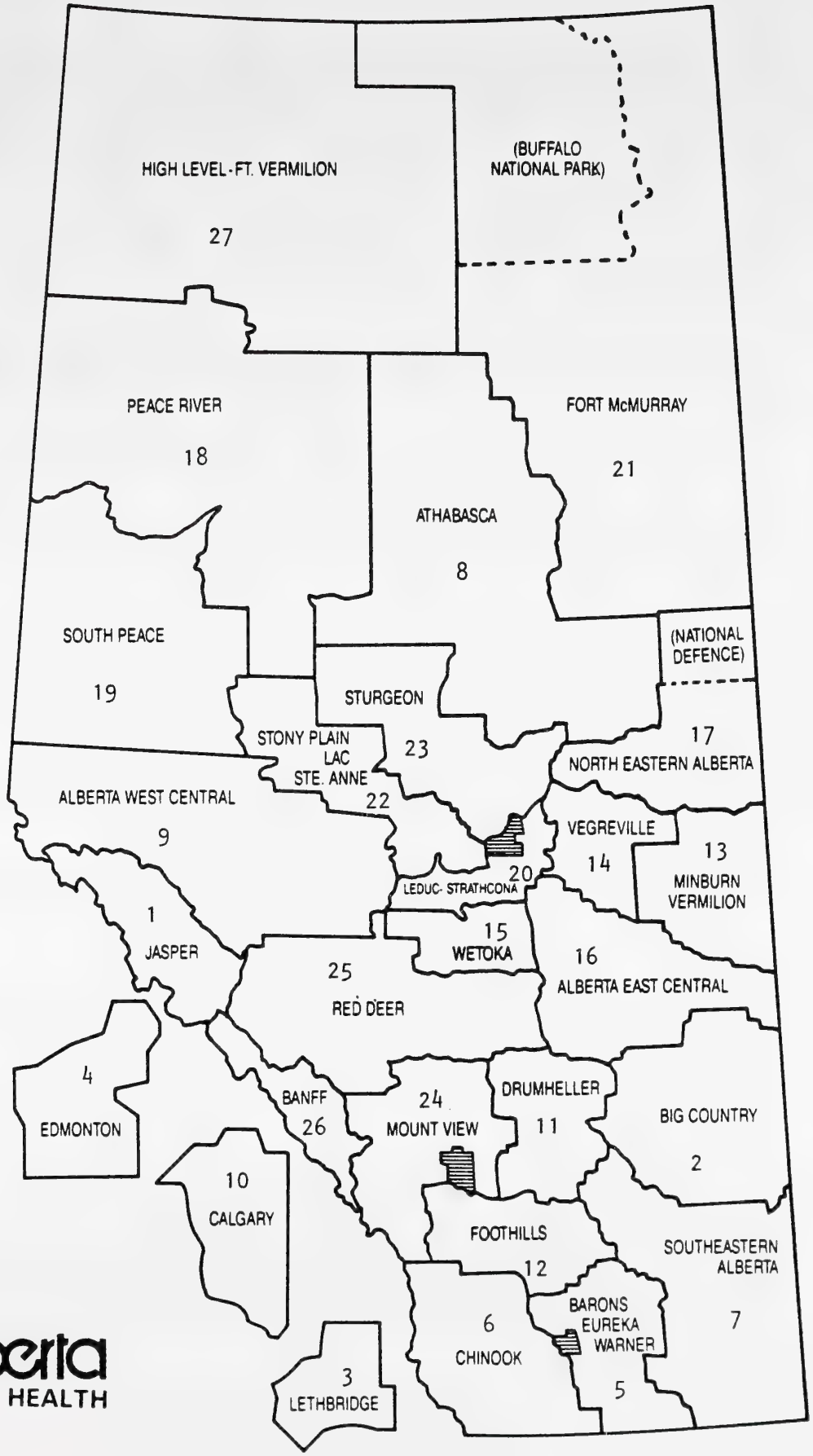
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	37	38	42	0
ALBERTA WEST CENTRAL	0	0	0	0	0	31	0	0	132	0
ATHABASCA	0	0	0	0	0	0	66	76	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	60	179	0
BIG COUNTRY	0	0	0	0	0	0	0	0	408	0
CALGARY	0	0	0	0	1	2	28	42	60	44
CHINOOK	0	0	0	0	0	0	104	0	66	0
DRUMHELLER	0	0	0	0	0	0	0	70	85	0
EDMONTON	0	0	0	0	3	0	31	47	122	51
FOOTHILLS	0	0	0	0	0	0	0	71	0	140
FORT MCMURRAY	0	0	0	0	0	25	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	671	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	29	0	107
LETHBRIDGE	0	0	0	0	0	0	36	80	94	72
MINBURN-VERMILION	0	0	0	0	0	0	0	120	0	0
MOUNT VIEW	0	0	0	0	0	0	0	43	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	56	75	0
PEACE RIVER	0	0	0	0	0	37	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	23	0	50
SOUTHEASTERN ALBERTA	0	0	0	0	0	18	55	63	0	0
SOUTH PEACE	0	0	0	0	0	20	0	44	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	76	0
STURGEON	0	0	0	0	0	0	0	57	0	0
VEGREVILLE	0	0	0	0	0	0	66	0	63	0
WETOKA	0	0	0	0	0	0	52	0	74	0
ALBERTA	0	0	0	0	1	3	22	43	66	31

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

LIVER CIRRHOSIS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	8	-1	18	16	0.80	.
ALBERTA WEST CENTRAL	11	-4	27	9	1.10	.
ATHABASCA	12	-5	29	8	1.20	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	13	-2	28	5	1.30	.
BIG COUNTRY	20	-8	47	2	2.00	.
CALGARY	11	7	14	10	1.10	.
CHINOOK	13	-2	29	6	1.30	.
DRUMHELLER	9	-4	22	11	0.90	.
EDMONTON	15	10	19	4	1.50	YES
FOOTHILLS	9	-4	22	12	0.90	.
FORT MCMURRAY	4	-4	12	21	0.40	.
HIGH LEVEL-FORT VERMILION	0	0	0	27	0.00	.
JASPER NATIONAL PARK	51	-49	150	1	5.10	.
LEDUC-STRATHCONA	5	-2	13	20	0.50	.
LETHBRIDGE	16	3	29	3	1.60	.
MINBURN-VERMILION	9	-3	22	13	0.90	.
MOUNT VIEW	3	-3	10	24	0.30	.
NORTH EASTERN ALBERTA	8	-3	19	17	0.80	.
PEACE RIVER	6	-6	18	18	0.60	.
RED DEER REGIONAL	3	-1	8	25	0.30	.
SOUTHEASTERN ALBERTA	13	2	24	7	1.30	.
SOUTH PEACE	6	-3	16	19	0.60	.
STONY PLAIN-LAC STE. ANNE	4	-4	11	22	0.40	.
STURGEON	4	-2	10	23	0.40	.
VEGREVILLE	9	-4	23	14	0.90	.
WETOKA	9	-3	21	15	0.90	.
ALBERTA	10	8	12			

HEALTH UNITS OF ALBERTA



LIVER CIRRHOSIS, MALES, 1990

NUMBER OF MALE DEATHS, 1990

CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	2	0	0	0	0	0	0	0	0	0	2
ALBERTA WEST CENTRAL	2	0	1	0	1	0	0	0	0	0	4
ATHABASCA	0	0	0	0	1	0	0	0	0	0	1
BANFF NATIONAL PARK	1	0	0	0	0	0	0	0	0	0	1
BARONS-EUREKA-WARNER	2	0	0	0	0	0	0	0	0	0	2
BIG COUNTRY	1	0	0	0	0	0	0	0	0	0	1
CALGARY	14	3	1	2	1	0	1	0	0	0	22
CHINOOK	1	0	0	0	0	0	0	0	0	0	1
DRUMHELLER	1	0	0	0	0	0	0	0	0	0	1
EDMONTON	13	1	0	1	3	0	0	0	0	1	19
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	1	0	0	0	0	0	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	2	0	0	0	0	0	0	0	1	0	3
LETHBRIDGE	2	0	0	0	0	0	0	1	0	0	3
MINBURN-VERMILION	1	0	0	1	0	0	0	0	0	0	2
MOUNT VIEW	1	0	0	0	0	0	0	0	0	0	1
NORTH EASTERN ALBERTA	1	0	0	0	0	0	0	0	0	0	1
PEACE RIVER	4	0	0	0	0	0	0	1	0	0	5
RED DEER REGIONAL	1	1	0	1	0	0	0	0	0	0	3
SOUTHEASTERN ALBERTA	2	0	0	0	0	0	0	0	1	0	3
SOUTH PEACE	5	0	0	0	0	0	0	0	0	0	5
STONY PLAIN-LAC STE. ANNE	4	0	1	0	0	0	0	0	0	0	5
STURGEON	1	1	0	0	0	0	0	0	0	0	2
VEGREVILLE	1	0	0	0	0	0	0	0	0	0	1
WETOKA	0	1	0	0	0	0	0	0	0	0	1
ALBERTA	63	7	3	5	6	0	1	2	2	1	90

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

CONGENITAL ANOMALY

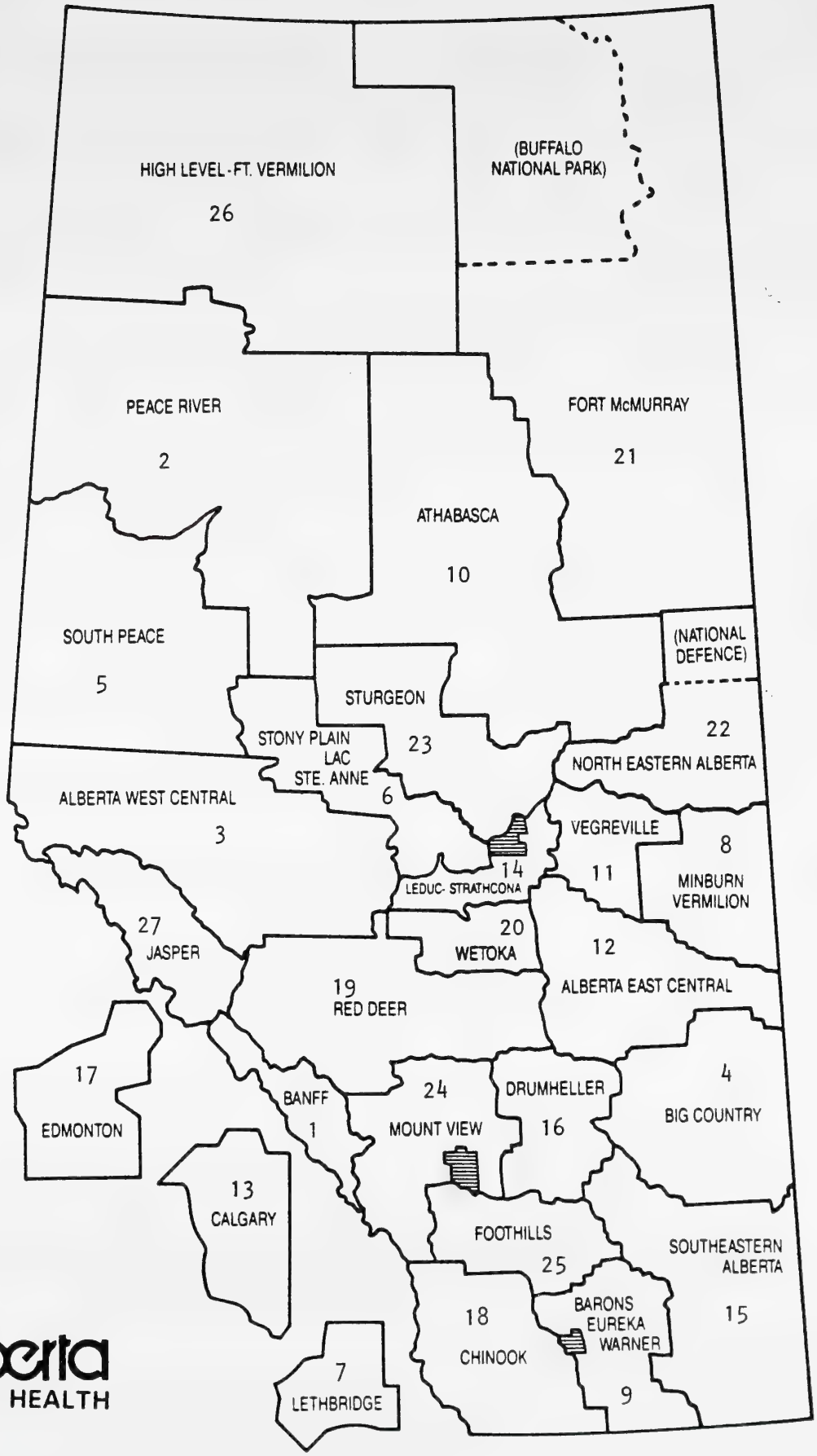
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	417	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	529	0	26	0	25	0	0	0	0	0
ATHABASCA	0	0	0	0	39	0	0	0	0	0
BANFF NATIONAL PARK	2326	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	518	0	0	0	0	0	0	0	0	0
BIG COUNTRY	746	0	0	0	0	0	0	0	0	0
CALGARY	240	14	2	4	1	0	3	0	0	0
CHINOOK	272	0	0	0	0	0	0	0	0	0
DRUMHELLER	342	0	0	0	0	0	0	0	0	0
EDMONTON	242	5	0	2	5	0	0	0	0	13
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	248	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	222	0	0	0	0	0	0	0	56	0
LETHBRIDGE	469	0	0	0	0	0	0	40	0	0
MINBURN-VERMILION	272	0	0	34	0	0	0	0	0	0
MOUNT VIEW	180	0	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	199	0	0	0	0	0	0	0	0	0
PEACE RIVER	1042	0	0	0	0	0	0	69	0	0
RED DEER REGIONAL	90	22	0	11	0	0	0	0	0	0
SOUTHEASTERN ALBERTA	292	0	0	0	0	0	0	0	39	0
SOUTH PEACE	749	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	619	0	15	0	0	0	0	0	0	0
STURGEON	119	28	0	0	0	0	0	0	0	0
VEGREVILLE	459	0	0	0	0	0	0	0	0	0
WETOKA	0	80	0	0	0	0	0	0	0	0
ALBERTA	284	8	2	3	3	0	1	2	3	3

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

CONGENITAL ANOMALY

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	7	-3	18	12	1.00	.
ALBERTA WEST CENTRAL	18	0	36	3	2.57	.
ATHABASCA	8	-7	22	10	1.14	.
BANFF NATIONAL PARK	42	-40	124	1	6.00	.
BARONS-EUREKA-WARNER	9	-4	22	9	1.29	.
BIG COUNTRY	13	-13	40	4	1.86	.
CALGARY	7	4	10	13	1.00	.
CHINOOK	5	-5	15	18	0.71	.
DRUMHELLER	6	-6	18	16	0.86	.
EDMONTON	6	3	9	17	0.86	.
FOOTHILLS	0	0	0	25	0.00	.
FORT MCMURRAY	4	-4	13	21	0.57	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	7	-1	14	14	1.00	.
LETHBRIDGE	11	-2	25	7	1.57	.
MINBURN-VERMILION	10	-4	24	8	1.43	.
MOUNT VIEW	3	-3	10	24	0.43	.
NORTH EASTERN ALBERTA	4	-3	11	22	0.57	.
PEACE RIVER	24	3	45	2	3.43	.
RED DEER REGIONAL	5	-1	10	19	0.71	.
SOUTHEASTERN ALBERTA	7	-1	15	15	1.00	.
SOUTH PEACE	13	2	25	5	1.86	.
STONY PLAIN-LAC STE. ANNE	13	2	25	6	1.86	.
STURGEON	4	-2	10	23	0.57	.
VEGREVILLE	8	-8	24	11	1.14	.
WETOKA	5	-5	16	20	0.71	.
ALBERTA	7	6	9			

HEALTH UNITS OF ALBERTA



Alberta
HEALTH

CONGENITAL ANOMALY, MALES, 1990

NUMBER OF MALE DEATHS, 1990

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	1	1	0	0	0	1	4
ALBERTA WEST CENTRAL	0	0	2	2	2	1	0	1	0	0	8
ATHABASCA	0	1	0	5	0	1	0	0	2	0	9
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	1	2	0	3	3	1	3	0	1	14
BIG COUNTRY	0	1	0	0	0	0	0	0	1	0	2
CALGARY	0	2	2	13	12	2	2	2	1	1	37
CHINOOK	0	0	0	0	2	4	0	1	1	0	8
DRUMHELLER	0	0	0	1	1	2	0	0	0	1	5
EDMONTON	0	0	3	6	9	6	5	3	5	1	38
FOOTHILLS	0	0	0	2	0	1	1	0	0	1	5
FORT MCMURRAY	0	0	0	4	1	1	1	0	0	0	7
HIGH LEVEL-FORT VERMILION	0	0	0	1	2	0	2	0	0	0	5
JASPER NATIONAL PARK	0	0	1	1	0	0	0	0	0	0	2
LEDUC-STRATHCONA	0	0	0	3	2	0	1	2	0	1	9
LETHBRIDGE	0	0	0	0	1	1	0	0	0	0	2
MINBURN-VERMILION	0	0	0	1	0	0	0	1	1	0	3
MOUNT VIEW	0	0	0	3	3	1	1	2	0	0	10
NORTH EASTERN ALBERTA	0	0	2	0	4	0	1	0	0	0	7
PEACE RIVER	0	2	0	5	0	0	1	0	1	1	10
RED DEER REGIONAL	0	0	1	5	6	2	1	2	2	1	20
SOUTHEASTERN ALBERTA	0	0	0	3	3	1	0	0	0	2	9
SOUTH PEACE	0	0	0	2	4	2	0	1	0	0	9
STONY PLAIN-LAC STE. ANNE	0	0	0	1	5	1	1	0	1	1	10
STURGEON	0	1	3	1	3	4	0	2	0	0	14
VEGREVILLE	0	0	0	0	1	2	0	1	0	0	4
WETOKA	0	0	0	1	1	0	0	0	0	0	2
ALBERTA	0	8	16	61	66	36	18	21	15	12	253

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

MOTOR VEHICLE ACCIDENTS

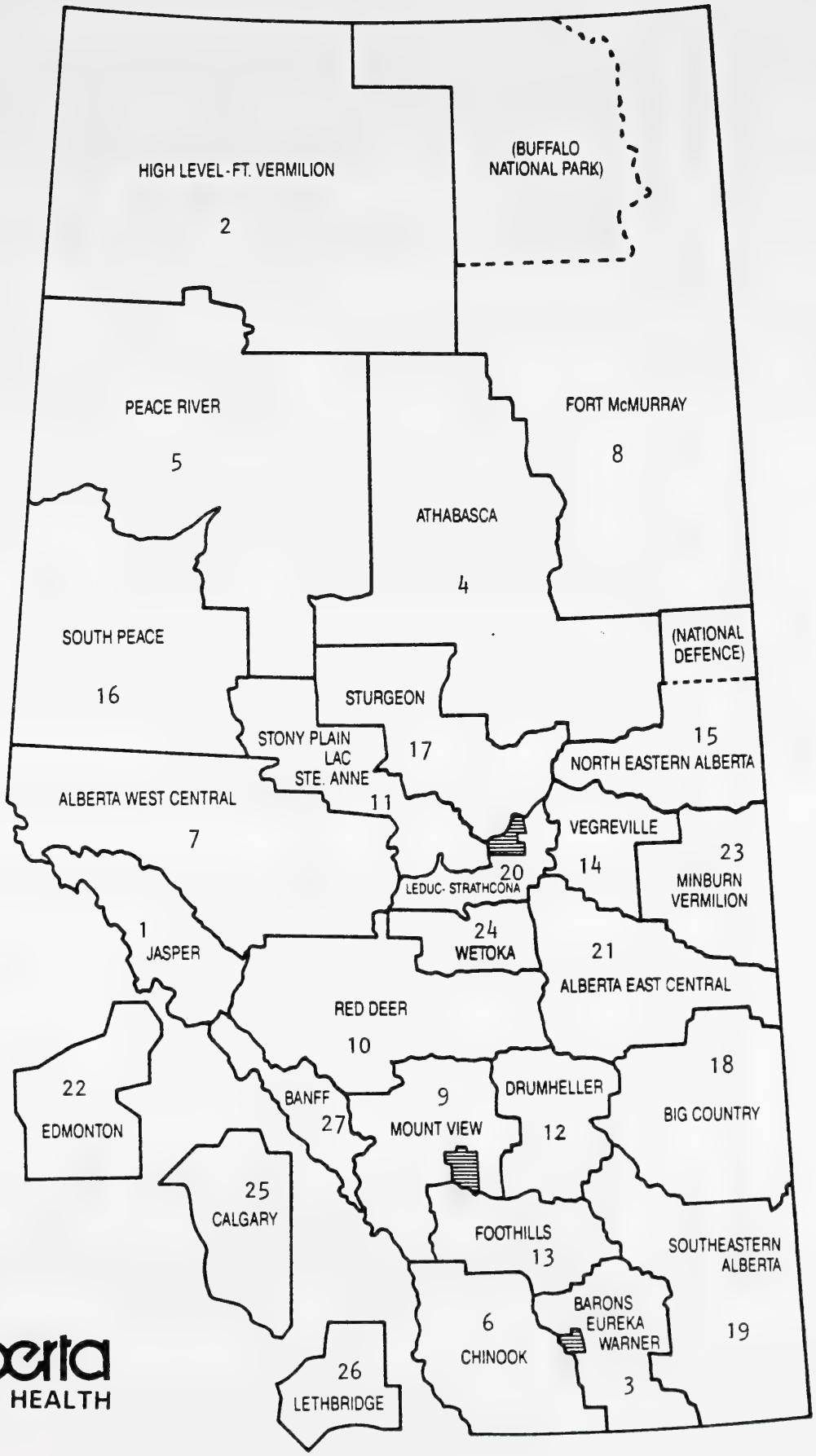
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	25	24	26	0	0	0	62
ALBERTA WEST CENTRAL	0	0	51	61	49	31	0	70	0	0
ATHABASCA	0	80	0	182	0	44	0	0	262	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	62	51	0	97	107	48	179	0	136
BIG COUNTRY	0	235	0	0	0	0	0	0	204	0
CALGARY	0	9	4	26	17	4	6	8	8	15
CHINOOK	0	0	0	0	69	143	0	57	66	0
DRUMHELLER	0	0	0	38	37	75	0	0	0	136
EDMONTON	0	0	8	13	15	14	17	13	36	13
FOOTHILLS	0	0	0	89	0	34	56	0	0	140
FORT MCMURRAY	0	0	0	129	22	25	62	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	75	158	0	368	0	0	0
JASPER NATIONAL PARK	0	0	571	216	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	37	24	0	17	58	0	107
LETHBRIDGE	0	0	0	0	20	23	0	0	0	0
MINBURN-VERMILION	0	0	0	34	0	0	0	60	76	0
MOUNT VIEW	0	0	0	69	54	18	31	86	0	0
NORTH EASTERN ALBERTA	0	0	45	0	89	0	42	0	0	0
PEACE RIVER	0	126	0	150	0	0	49	0	113	138
RED DEER REGIONAL	0	0	10	53	51	21	18	46	61	50
SOUTHEASTERN ALBERTA	0	0	0	51	43	18	0	0	0	140
SOUTH PEACE	0	0	0	37	64	39	0	44	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	20	87	16	27	0	76	134
STURGEON	0	28	32	14	37	43	0	57	0	0
VEGREVILLE	0	0	0	0	49	94	0	65	0	0
WETOKA	0	0	0	36	35	0	0	0	0	0
ALBERTA	0	9	8	32	28	18	15	23	25	34

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	14	0	29	21	0.70	.
ALBERTA WEST CENTRAL	37	11	63	7	1.85	.
ATHABASCA	53	18	88	4	2.65	YES
BANFF NATIONAL PARK	0	0	0	27	0.00	.
BARONS-EUREKA-WARNER	70	33	108	3	3.50	YES
BIG COUNTRY	26	-11	63	18	1.30	.
CALGARY	11	8	15	25	0.55	.
CHINOOK	44	13	75	6	2.20	.
DRUMHELLER	29	3	55	12	1.45	.
EDMONTON	13	9	17	22	0.65	.
FOOTHILLS	29	3	54	13	1.45	.
FORT MCMURRAY	34	9	60	8	1.70	.
HIGH LEVEL-FORT VERMILION	78	9	147	2	3.90	.
JASPER NATIONAL PARK	122	-64	309	1	6.10	.
LEDUC-STRATHCONA	19	7	32	20	0.95	.
LETHBRIDGE	8	-3	18	26	0.40	.
MINBURN-VERMILION	13	-2	29	23	0.65	.
MOUNT VIEW	33	13	54	9	1.65	.
NORTH EASTERN ALBERTA	28	7	50	15	1.40	.
PEACE RIVER	46	17	74	5	2.30	YES
RED DEER REGIONAL	33	18	47	10	1.65	.
SOUTHEASTERN ALBERTA	23	8	38	19	1.15	.
SOUTH PEACE	28	10	46	16	1.40	.
STONY PLAIN-LAC STE. ANNE	33	12	53	11	1.65	.
STURGEON	27	13	42	17	1.35	.
VEGREVILLE	29	0	59	14	1.45	.
WETOKA	12	-5	30	24	0.60	.
ALBERTA	20	18	23			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

NUMBER OF MALE DEATHS, 1990

SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	1	3	0	1	2	0	7
ALBERTA WEST CENTRAL	0	0	0	0	2	1	1	0	1	0	5
ATHABASCA	0	0	0	2	4	0	0	0	0	0	6
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	1	0	0	1	2
BIG COUNTRY	0	0	0	0	1	0	0	0	0	0	1
CALGARY	0	0	0	17	20	16	11	9	5	3	81
CHINOOK	0	0	0	2	0	0	2	0	0	1	5
DRUMHELLER	0	0	0	1	0	0	0	1	0	1	3
EDMONTON	0	0	0	16	25	20	7	11	0	4	83
FOOTHILLS	0	0	0	0	1	0	1	1	0	0	3
FORT MCMURRAY	0	0	0	2	0	0	0	0	0	0	2
HIGH LEVEL-FORT VERMILION	0	0	0	4	0	1	0	1	0	0	6
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	2	3	1	3	0	0	0	9
LETHBRIDGE	0	0	3	1	0	2	2	0	0	2	10
MINBURN-VERMILION	0	0	0	2	0	0	1	0	0	0	3
MOUNT VIEW	0	0	1	1	1	1	1	0	1	0	6
NORTH EASTERN ALBERTA	0	0	0	2	0	3	2	0	0	1	8
PEACE RIVER	0	0	1	3	0	0	0	0	0	0	4
RED DEER REGIONAL	0	0	0	2	6	1	3	0	1	1	14
SOUTHEASTERN ALBERTA	0	0	0	4	1	3	0	2	1	2	13
SOUTH PEACE	0	0	2	2	1	0	0	0	0	0	5
STONY PLAIN-LAC STE. ANNE	0	0	0	0	3	0	1	1	0	0	5
STURGEON	0	0	0	1	2	6	2	0	0	0	11
VEGREVILLE	0	0	0	1	0	1	1	0	1	0	4
WETOKA	0	0	0	2	1	3	0	1	0	0	7
ALBERTA	0	0	7	67	72	62	39	28	12	16	303

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

SUICIDE

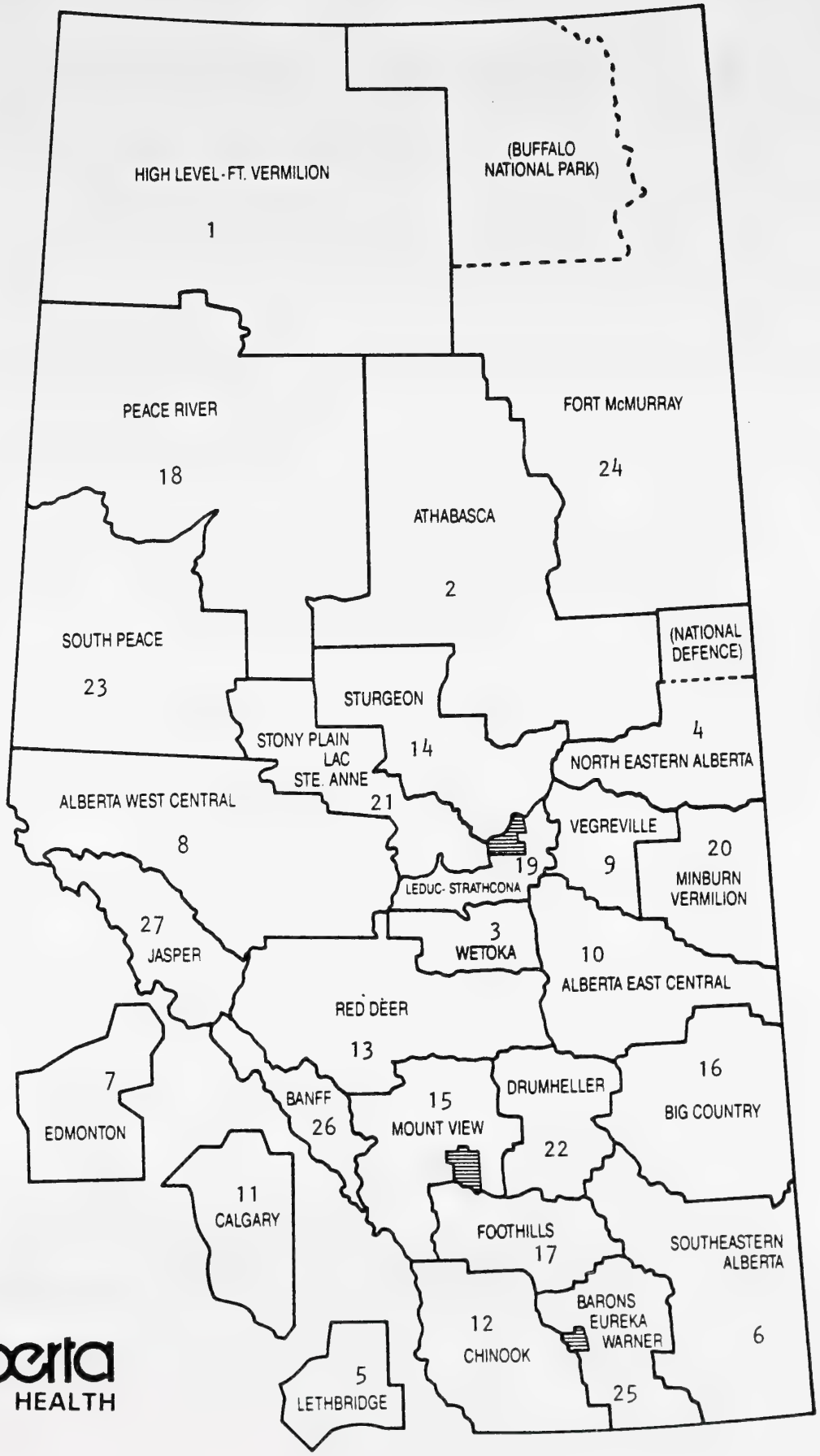
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	24	79	0	38	84	0
ALBERTA WEST CENTRAL	0	0	0	0	49	31	46	0	132	0
ATHABASCA	0	0	0	73	156	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	48	0	0	136
BIG COUNTRY	0	0	0	0	91	0	0	0	0	0
CALGARY	0	0	0	34	28	28	34	38	38	44
CHINOOK	0	0	0	65	0	0	104	0	0	96
DRUMHELLER	0	0	0	38	0	0	0	70	0	136
EDMONTON	0	0	0	34	41	46	24	47	0	51
FOOTHILLS	0	0	0	0	39	0	56	71	0	0
FORT MCMURRAY	0	0	0	65	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	299	0	108	0	280	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	24	36	9	51	0	0	0
LETHBRIDGE	0	0	66	22	0	46	73	0	0	143
MINBURN-VERMILION	0	0	0	68	0	0	53	0	0	0
MOUNT VIEW	0	0	18	23	18	18	31	0	72	0
NORTH EASTERN ALBERTA	0	0	0	49	0	87	84	0	0	132
PEACE RIVER	0	0	27	90	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	21	51	11	53	0	31	50
SOUTHEASTERN ALBERTA	0	0	0	68	14	54	0	63	39	140
SOUTH PEACE	0	0	33	37	16	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	52	0	27	42	0	0
STURGEON	0	0	0	14	25	64	39	0	0	0
VEGREVILLE	0	0	0	54	0	47	66	0	63	0
WETOKA	0	0	0	73	35	104	0	56	0	0
ALBERTA	0	0	4	35	30	31	32	30	20	45

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

SUICIDE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	24	5	43	10	0.96	.
ALBERTA WEST CENTRAL	25	3	48	8	1.00	.
ATHABASCA	41	8	75	2	1.64	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	9	-3	20	25	0.36	.
BIG COUNTRY	18	-17	52	16	0.72	.
CALGARY	24	19	30	11	0.96	.
CHINOOK	23	2	43	12	0.92	.
DRUMHELLER	15	-2	32	22	0.60	.
EDMONTON	28	22	34	7	1.12	.
FOOTHILLS	18	-3	39	17	0.72	.
FORT MCMURRAY	10	-4	24	24	0.40	.
HIGH LEVEL-FORT VERMILION	85	15	155	1	3.40	YES
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	17	6	29	19	0.68	.
LETHBRIDGE	32	12	53	5	1.28	.
MINBURN-VERMILION	16	-2	33	20	0.64	.
MOUNT VIEW	19	4	34	15	0.76	.
NORTH EASTERN ALBERTA	34	10	57	4	1.36	.
PEACE RIVER	18	0	36	18	0.72	.
RED DEER REGIONAL	23	11	35	13	0.92	.
SOUTHEASTERN ALBERTA	32	15	50	6	1.28	.
SOUTH PEACE	14	2	26	23	0.56	.
STONY PLAIN-LAC STE. ANNE	16	2	30	21	0.64	.
STURGEON	21	8	33	14	0.84	.
VEGREVILLE	25	-1	51	9	1.00	.
WETOKA	39	10	68	3	1.56	.
ALBERTA	25	22	27			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

SUICIDE, MALES, 1990

3.54

NUMBER OF MALE DEATHS, 1990

PROSTATE CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	3	7	10
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	0	1	2
ATHABASCA	0	0	0	0	0	0	0	0	1	5	6
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	1	0	1	2	4
BIG COUNTRY	0	0	0	0	0	0	0	0	1	2	3
CALGARY	0	0	0	0	0	0	2	4	23	36	65
CHINOOK	0	0	0	0	0	0	0	0	2	3	5
DRUMHELLER	0	0	0	0	0	0	0	1	2	1	4
EDMONTON	0	0	0	0	0	0	1	5	18	31	55
FOOTHILLS	0	0	0	0	0	0	0	0	3	1	4
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	3	1	4
LETHBRIDGE	0	0	0	0	0	0	0	0	2	5	7
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	4	4
MOUNT VIEW	0	0	0	0	0	0	0	0	3	8	11
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	3	3
PEACE RIVER	0	0	0	0	0	0	0	0	0	7	7
RED DEER REGIONAL	0	0	0	0	0	0	0	1	4	11	16
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	2	2	4	8
SOUTH PEACE	0	0	0	0	0	0	0	0	1	2	3
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	0	0	1
STURGEON	0	0	0	0	0	0	0	2	3	5	10
VEGREVILLE	0	0	0	0	0	0	0	0	0	6	6
WETOKA	0	0	0	0	0	0	0	1	6	6	13
ALBERTA	0	0	0	0	0	0	4	18	78	151	251

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1990

PROSTATE CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	126	432
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	70	0	236
ATHABASCA	0	0	0	0	0	0	0	0	131	938
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	48	0	90	272
BIG COUNTRY	0	0	0	0	0	0	0	0	204	637
CALGARY	0	0	0	0	0	0	6	17	173	533
CHINOOK	0	0	0	0	0	0	0	0	133	287
DRUMHELLER	0	0	0	0	0	0	0	70	170	136
EDMONTON	0	0	0	0	0	0	3	21	129	393
FOOTHILLS	0	0	0	0	0	0	0	0	283	140
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	167	107
LETHBRIDGE	0	0	0	0	0	0	0	0	94	359
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	426
MOUNT VIEW	0	0	0	0	0	0	0	0	216	885
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	397
PEACE RIVER	0	0	0	0	0	0	0	0	0	966
RED DEER REGIONAL	0	0	0	0	0	0	0	23	123	553
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	63	77	280
SOUTH PEACE	0	0	0	0	0	0	0	0	78	212
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	42	0	0
STURGEON	0	0	0	0	0	0	0	57	145	399
VEGREVILLE	0	0	0	0	0	0	0	0	0	518
WETOKA	0	0	0	0	0	0	0	56	443	618
ALBERTA	0	0	0	0	0	0	3	19	132	429

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1990

PROSTATE CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	18	7	30	10	0.90	.
ALBERTA WEST CENTRAL	12	-5	29	18	0.60	.
ATHABASCA	33	7	59	3	1.65	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS-EUREKA-WARNER	17	0	33	12	0.85	.
BIG COUNTRY	28	-4	60	4	1.40	.
CALGARY	25	19	32	6	1.25	.
CHINOOK	15	2	27	15	0.75	.
DRUMHELLER	17	0	34	13	0.85	.
EDMONTON	19	14	24	9	0.95	.
FOOTHILLS	18	0	35	11	0.90	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	11	0	22	20	0.55	.
LETHBRIDGE	15	4	26	16	0.75	.
MINBURN-VERMILION	12	0	24	19	0.60	.
MOUNT VIEW	36	15	57	2	1.80	.
NORTH EASTERN ALBERTA	11	-1	24	21	0.55	.
PEACE RIVER	28	7	48	5	1.40	.
RED DEER REGIONAL	23	12	35	7	1.15	.
SOUTHEASTERN ALBERTA	16	5	28	14	0.80	.
SOUTH PEACE	10	-1	21	22	0.50	.
STONY PLAIN-LAC STE. ANNE	3	-3	9	23	0.15	.
STURGEON	23	9	37	8	1.15	.
VEGREVILLE	15	3	27	17	0.75	.
WETOKA	43	20	67	1	2.15	YES
ALBERTA	20	18	23			

HEALTH UNITS OF ALBERTA

Alberta HEALTH

POTENTIAL YEARS OF LIFE LOST FROM SELECTED CAUSES: MALE, 1990

REGION	HEALTH UNIT	ALL CAUSES		ISCHEMIC HEART DISEASE		MOTOR VEHICLE ACCIDENTS		CEREBRO-VASCULAR DISEASE		LUNG CANCER		CHRONIC OBSTRUCTIVE LUNG DISEASE		PROSTATE CANCER		COLON CANCER		SUICIDE		ALL OTHER CAUSES	
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
*																					
N	ATHABASCA	1611	100	31	1.9	350	21.7	30	1.9	34	2.1	1	0.1	1	0.1	3	0.2	260	16.1	901	55.9
N	FORT MCMURRAY	1046	100	61	5.8	290	27.7	41	3.9	13	1.2	0	0.0	0	0.0	0	0.0	100	9.6	541	51.7
N	HIGH LEVEL-FORT VERMILION	1121	100	53	4.7	170	15.2	0	0.0	41	3.7	0	0.0	0	0.0	0	0.0	240	21.4	617	55.0
N	PEACE RIVER	1757	100	116	6.6	405	23.1	1	0.1	64	3.6	1	0.1	0	0.0	11	0.6	210	12.0	949	54.0
N	SOUTH PEACE	2267	100	201	8.9	330	14.6	11	0.5	33	1.5	23	1.0	1	0.0	10	0.4	260	11.5	1398	61.7
	NORTH REGION SUM:	7802	100	462	5.9	1545	19.8	83	1.1	185	2.4	25	0.3	2	0.0	24	0.3	1070	13.7	4406	56.5
NC	ALBERTA WEST CENTRAL	1521	100	163	10.7	340	22.4	13	0.9	53	3.5	13	0.9	10	0.7	31	2.0	131	8.6	767	50.4
NC	JASPER NATIONAL PARK	310	100	0	0.0	110	35.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	200	64.5
NC	LEDUC-STRATHCONA	2522	100	275	10.9	270	10.7	44	1.7	133	5.3	5	0.2	4	0.2	41	1.6	310	12.3	1440	57.1
NC	MINBURN-VERMILION	801	100	13	1.6	61	7.6	4	0.5	54	6.7	51	6.4	0	0.0	0	0.0	120	15.0	498	62.2
NC	NORTH EASTERN ALBERTA	1442	100	160	11.1	300	20.8	93	6.4	55	3.8	3	0.2	0	0.0	60	4.2	230	16.0	541	37.5
NC	STONY PLAIN-LAC STE. ANNE	2090	100	114	5.5	301	14.4	14	0.7	48	2.3	3	0.1	10	0.5	1	0.0	150	7.2	1449	69.3
NC	STURGEON	2987	100	536	17.9	557	18.6	43	1.4	74	2.5	48	1.6	24	0.8	45	1.5	350	11.7	1310	43.9
NC	VEGREVILLE	741	100	56	7.6	110	14.8	1	0.1	78	10.5	1	0.1	0	0.0	0	0.0	101	13.6	394	53.2
	NORTH CENTRAL SUM:	12414	100	1317	10.6	2049	16.5	212	1.7	495	4.0	124	1.0	48	0.4	178	1.4	1392	11.2	6599	53.2
EDMONTON BOARD OF HEALTH		18863	100	1945	10.3	1156	6.1	516	2.7	769	4.1	161	0.9	93	0.5	259	1.4	2650	14.0	11314	60.0
CALGARY BOARD OF HEALTH		19551	100	1471	7.5	1505	7.7	204	1.0	706	3.6	254	1.3	109	0.6	339	1.7	2446	12.5	12517	64.0
SC	ALBERTA EAST CENTRAL	1194	100	120	10.1	120	10.1	13	1.1	90	7.5	28	2.3	4	0.3	71	5.9	143	12.0	605	50.7
SC	BANFF NATIONAL PARK	158	100	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	157	99.4
SC	BIG COUNTRY	369	100	4	1.1	68	18.4	24	6.5	13	3.5	1	0.3	1	0.3	0	0.0	40	10.8	218	59.1
SC	DRUMHELLER	928	100	114	12.3	150	16.2	1	0.1	16	1.7	5	0.5	13	1.4	4	0.4	60	6.5	565	60.9
SC	MOUNT VIEW	1838	100	120	6.5	340	18.5	33	1.8	56	3.0	11	0.6	4	0.2	23	1.3	201	10.9	1050	57.1
SC	RED DEER REGIONAL	3346	100	264	7.9	653	19.5	36	1.1	105	3.1	44	1.3	15	0.4	56	1.7	431	12.9	1742	52.1
SC	WETOKA	1336	100	119	8.9	90	6.7	6	0.4	51	3.8	65	4.9	18	1.3	10	0.7	240	18.0	737	55.2
	SOUTH CENTRAL SUM:	9169	100	742	8.1	1421	15.5	113	1.2	331	3.6	154	1.7	55	0.6	164	1.8	1115	12.2	5074	55.3
S	BARONS-EUREKA-WARNER	1014	100	83	8.2	447	44.1	10	1.0	24	2.4	11	1.1	21	2.1	40	3.9	20	2.0	358	35.3
S	CHINOOK	1416	100	176	12.4	211	14.9	18	1.3	33	2.3	1	0.1	3	0.2	21	1.5	140	9.9	813	57.4
S	FOOTHILLS	953	100	74	7.8	150	15.7	11	1.2	45	4.7	5	0.5	4	0.4	13	1.4	70	7.3	581	61.0
S	LETHBRIDGE	1847	100	204	11.0	70	3.8	35	1.9	111	6.0	30	1.6	3	0.2	24	1.3	330	17.9	1040	56.3
S	SOUTHEASTERN ALBERTA	1981	100	355	17.9	300	15.1	3	0.2	35	1.8	44	2.2	23	1.2	65	3.3	351	17.7	805	40.6
	SOUTH REGION SUM:	7211	100	892	12.4	1178	16.3	77	1.1	248	3.4	91	1.3	54	0.7	163	2.3	911	12.6	3597	49.9
	HEALTH UNIT TOTAL	75005	100	6828	9.1	8855	11.8	1203	1.6	2730	3.6	808	1.1	358	0.5	1126	1.5	9585	12.8	43512	58.0

* N = NORTH REGION, NC = NORTH CENTRAL REGION, SC = SOUTH CENTRAL REGION, and S = SOUTH REGION

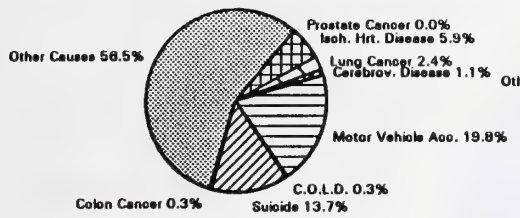
NOTE: Data and percentages may not add-up to totals due to rounding.

CHART 3.60

POTENTIAL YEARS OF LIFE LOST (PYLL) BY REGION
MALE, 1990

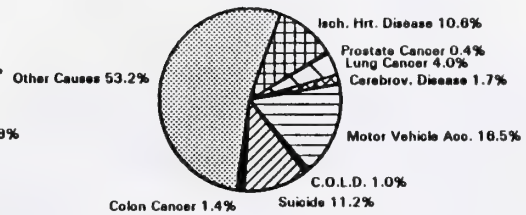
Percentage Distribution by Selected Preventable Causes

NORTH REGION



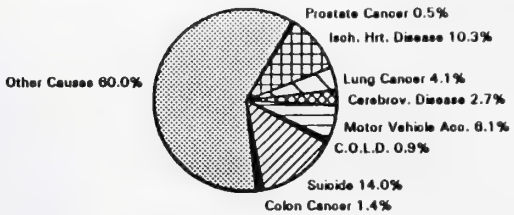
PYLL = 7,802 YEARS

NORTH CENTRAL REGION



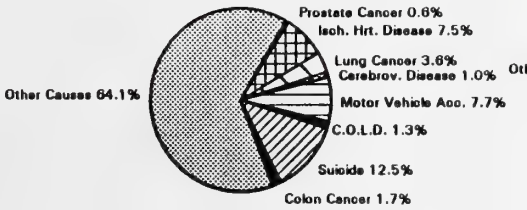
PYLL = 12,414 YEARS

EDMONTON



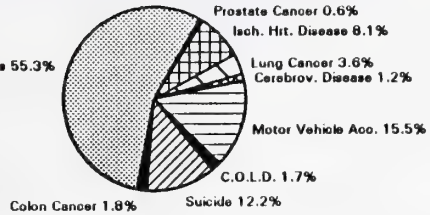
PYLL = 18,863 YEARS

CALGARY



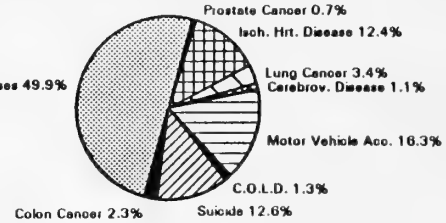
PYLL = 19,551 YEARS

SOUTH CENTRAL REGION



PYLL = 9,169 YEARS

SOUTH REGION



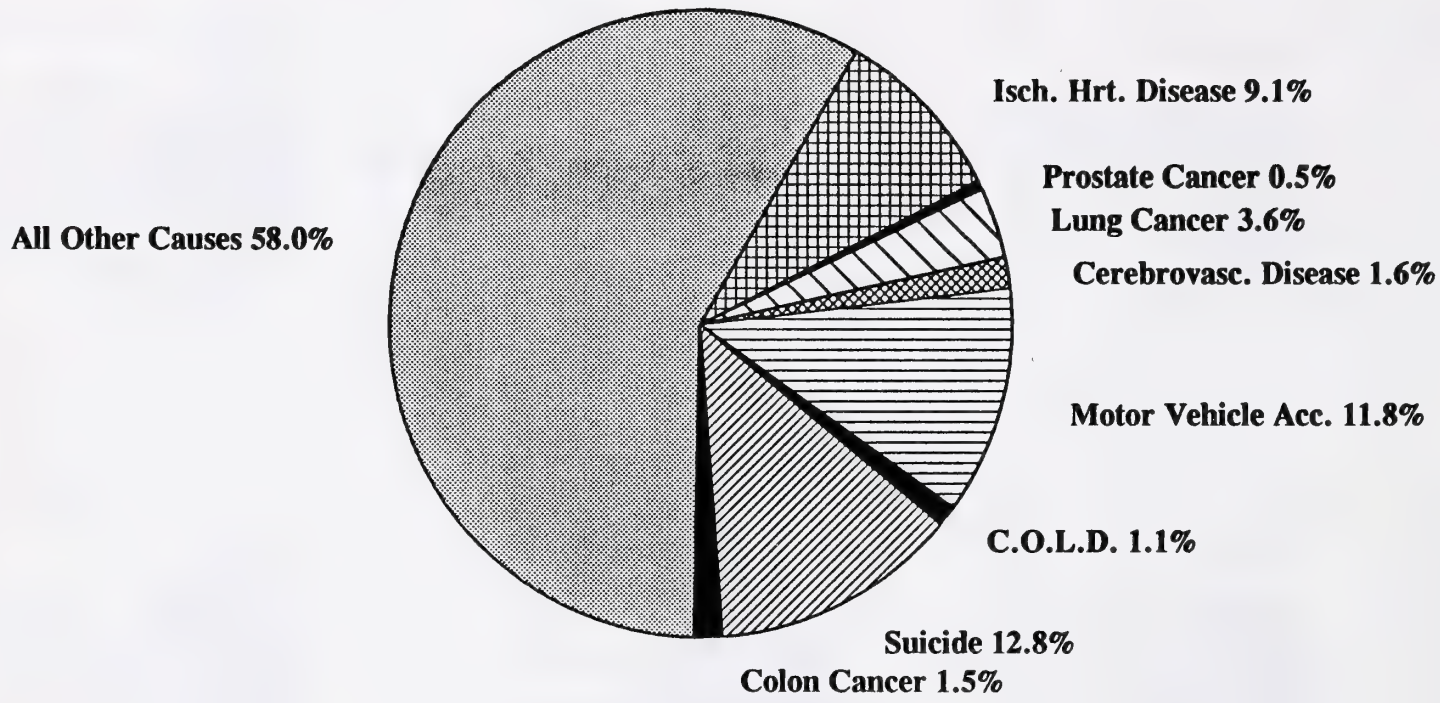
PYLL = 7,211 YEARS

NOTE: Data and percentages may not add-up due to rounding.

POTENTIAL YEARS OF LIFE LOST (PYLL): MALE, 1990

Percentage Distribution by Selected Preventable Causes

ALBERTA HEALTH UNIT TOTAL



PYLL = 75,005 YEARS

CHAPTER 4

FEMALE DEATHS

1990

DESCRIPTION OF TABLES

This chapter deals with deaths in the female population for the year 1990, by health units of Alberta. The layout of Chapter 4 is identical to that of Chapter 3, except that it includes female breast cancer instead of prostate cancer.

The causes of death selected for study are listed along with rubrics below:

CAUSE OF DEATH	ICD-9 RUBRIC
All Causes	1 - 999
All Cancer	140 - 208
Colon Cancer	153 - 154
Lung Cancer	162
Female Breast Cancer	185
Diabetes Mellitus	250
Ischemic Heart Disease	410 - 414
Cerebrovascular Disease	430 - 438
Pneumonia	480 - 486
Chronic Obstructive Lung Disease	490 - 493, 496
Liver Cirrhosis	571
Congenital Anomaly	740 - 759
Motor Vehicle Accidents	810 - 819
Suicide	950 - 959

The causes have been ordered in the table and in the chapter in ascending order of rubric number, except for female breast cancer which has been placed at the end of the chapter. Because of this arrangement, the tables and figures in this chapter correspond by page numbers.

NUMBER IN FEMALE POPULATION, 1990

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	424	1968	4376	3574	3981	3835	2671	2639	2765	2137	28370
ALBERTA WEST CENTRAL	395	1543	3364	2943	3718	2859	1891	1072	773	518	19076
ATHABASCA	381	1238	2921	2464	2443	2162	1387	1024	798	537	15355
BANFF NATIONAL PARK	63	119	319	1091	865	590	316	210	151	96	3820
BARONS-EUREKA-WARNER	375	1551	3688	2820	2977	2760	1862	1604	1307	1035	19979
BIG COUNTRY	93	464	971	843	877	820	548	618	488	379	6101
CALGARY	5758	20656	42632	49791	71956	55238	32693	24757	17470	13288	334239
CHINOOK	395	1802	3598	2785	2945	2720	1872	1810	1746	1308	20981
DRUMHELLER	316	1197	2795	2315	2601	2336	1506	1337	1330	942	16675
EDMONTON	5319	18138	36092	48143	61250	43100	29602	24772	18686	14123	299225
FOOTHILLS	270	1127	2804	1999	2707	2916	1543	1310	1332	898	16906
FORT MCMURRAY	400	1503	3714	3100	4375	3301	1121	398	230	81	18223
HIGH LEVEL-FORT VERMILION	231	802	1842	1312	1122	732	449	174	123	96	6883
JASPER NATIONAL PARK	24	104	196	436	434	230	167	94	85	85	1855
LEDUC-STRATHCONA	835	3449	9948	7250	8945	10942	5265	2915	1959	1272	52780
LETHBRIDGE	469	1721	4357	4573	5494	4546	3028	2920	2780	2396	32284
MINBURN-VERMILION	363	1407	3189	2858	3277	2771	1684	1455	1503	1233	19740
MOUNT VIEW	529	2190	5098	3745	5763	5322	2993	2090	1699	1076	30505
NORTH EASTERN ALBERTA	497	1827	4250	3834	3947	3233	1995	1481	1203	965	23232
PEACE RIVER	404	1471	3571	2818	3133	2614	1770	1242	917	638	18578
RED DEER REGIONAL	1169	4168	9596	9363	11473	9002	5644	4371	3645	2539	60970
SOUTHEASTERN ALBERTA	633	2547	6048	5560	6705	5554	3518	3320	3064	2139	39088
SOUTH PEACE	665	2524	5819	5153	6277	4688	2738	1993	1483	1144	32484
STONY PLAIN-LAC STE. ANNE	613	2515	6451	4224	6068	5869	2932	1921	1310	677	32580
STURGEON	835	3354	8826	6517	8391	8929	4738	2955	2093	1674	48312
VEGREVILLE	183	783	2312	1692	1940	2044	1514	1515	1579	1318	14880
WETOKA	340	1237	2814	2481	2950	2696	1955	1785	1542	1138	18938
ALBERTA	21979	81405	181591	183684	236614	191809	117402	91782	72061	53732	1232059

AGE DISTRIBUTION (IN %) FEMALES, 1990

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	1.49	6.94	15.42	12.60	14.03	13.52	9.41	9.30	9.75	7.53
ALBERTA WEST CENTRAL	2.07	8.09	17.63	15.43	19.49	14.99	9.91	5.62	4.05	2.72
ATHABASCA	2.48	8.06	19.02	16.05	15.91	14.08	9.03	6.67	5.20	3.50
BANFF NATIONAL PARK	1.65	3.12	8.35	28.56	22.64	15.45	8.27	5.50	3.95	2.51
BARONS-EUREKA-WARNER	1.88	7.76	18.46	14.11	14.90	13.81	9.32	8.03	6.54	5.18
BIG COUNTRY	1.52	7.61	15.92	13.82	14.37	13.44	8.98	10.13	8.00	6.21
CALGARY	1.72	6.18	12.75	14.90	21.53	16.53	9.78	7.41	5.23	3.98
CHINOOK	1.88	8.59	17.15	13.27	14.04	12.96	8.92	8.63	8.32	6.23
DRUMHELLER	1.90	7.18	16.76	13.88	15.60	14.01	9.03	8.02	7.98	5.65
EDMONTON	1.78	6.06	12.06	16.09	20.47	14.40	9.89	8.28	6.24	4.72
FOOTHILLS	1.60	6.67	16.59	11.82	16.01	17.25	9.13	7.75	7.88	5.31
FORT MCMURRAY	2.20	8.25	20.38	17.01	24.01	18.11	6.15	2.18	1.26	0.44
HIGH LEVEL-FORT VERMILION	3.36	11.65	26.76	19.06	16.30	10.63	6.52	2.53	1.79	1.39
JASPER NATIONAL PARK	1.29	5.61	10.57	23.50	23.40	12.40	9.00	5.07	4.58	4.58
LEDUC-STRATHCONA	1.58	6.53	18.85	13.74	16.95	20.73	9.98	5.52	3.71	2.41
LETHBRIDGE	1.45	5.33	13.50	14.16	17.02	14.08	9.38	9.04	8.61	7.42
MINBURN-VERMILION	1.84	7.13	16.16	14.48	16.60	14.04	8.53	7.37	7.61	6.25
MOUNT VIEW	1.73	7.18	16.71	12.28	18.89	17.45	9.81	6.85	5.57	3.53
NORTH EASTERN ALBERTA	2.14	7.86	18.29	16.50	16.99	13.92	8.59	6.37	5.18	4.15
PEACE RIVER	2.17	7.92	19.22	15.17	16.86	14.07	9.53	6.69	4.94	3.43
RED DEER REGIONAL	1.92	6.84	15.74	15.36	18.82	14.76	9.26	7.17	5.98	4.16
SOUTHEASTERN ALBERTA	1.62	6.52	15.47	14.22	17.15	14.21	9.00	8.49	7.84	5.47
SOUTH PEACE	2.05	7.77	17.91	15.86	19.32	14.43	8.43	6.14	4.57	3.52
STONY PLAIN-LAC STE. ANNE	1.88	7.72	19.80	12.97	18.62	18.01	9.00	5.90	4.02	2.08
STURGEON	1.73	6.94	18.27	13.49	17.37	18.48	9.81	6.12	4.33	3.46
VEGREVILLE	1.23	5.26	15.54	11.37	13.04	13.74	10.17	10.18	10.61	8.86
WETOKA	1.80	6.53	14.86	13.10	15.58	14.24	10.32	9.43	8.14	6.01
ALBERTA	1.78	6.61	14.74	14.91	19.20	15.57	9.53	7.45	5.85	4.36

NUMBER OF FEMALE DEATHS, 1990

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	2	2	5	3	13	28	141	194
ALBERTA WEST CENTRAL	1	1	0	3	2	3	2	11	14	31	68
ATHABASCA	2	2	2	4	5	3	3	10	12	36	79
BANFF NATIONAL PARK	2	0	0	0	0	0	0	0	1	5	8
BARONS-EUREKA-WARNER	2	1	0	2	0	2	5	8	20	59	99
BIG COUNTRY	0	0	0	0	0	0	1	1	5	25	32
CALGARY	41	4	7	16	23	44	84	164	301	844	1528
CHINOOK	1	0	2	1	3	2	2	10	27	94	142
DRUMHELLER	1	0	1	2	1	5	5	5	18	51	89
EDMONTON	44	7	6	18	45	55	73	172	274	865	1559
FOOTHILLS	0	0	1	0	1	4	1	7	19	62	95
FORT MCMURRAY	1	1	0	0	1	3	1	5	1	4	17
HIGH LEVEL-FORT VERMILION	3	1	2	0	0	1	1	2	1	8	19
JASPER NATIONAL PARK	0	0	0	0	0	0	1	1	4	4	10
LEDUC-STRATHCONA	1	2	1	5	4	9	13	16	27	79	157
LETHBRIDGE	3	0	0	2	3	7	8	13	31	145	212
MINBURN-VERMILION	1	0	0	0	1	5	2	4	14	66	93
MOUNT VIEW	4	0	1	3	3	4	5	13	28	79	140
NORTH EASTERN ALBERTA	3	0	1	0	5	1	2	7	24	62	105
PEACE RIVER	1	1	4	4	1	4	2	5	18	50	90
RED DEER REGIONAL	8	1	2	3	3	11	22	31	49	156	286
SOUTHEASTERN ALBERTA	5	1	2	6	1	4	9	13	43	156	240
SOUTH PEACE	4	0	0	2	6	4	9	14	14	69	122
STONY PLAIN-LAC STE. ANNE	2	0	3	4	1	8	5	15	22	57	117
STURGEON	5	1	1	0	3	12	18	22	41	117	220
VEGREVILLE	1	0	1	0	0	2	2	9	20	78	113
WETOKA	2	2	1	2	2	5	5	8	20	86	133
ALBERTA	138	25	38	79	116	203	284	579	1076	3429	5967

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

ALL CAUSES

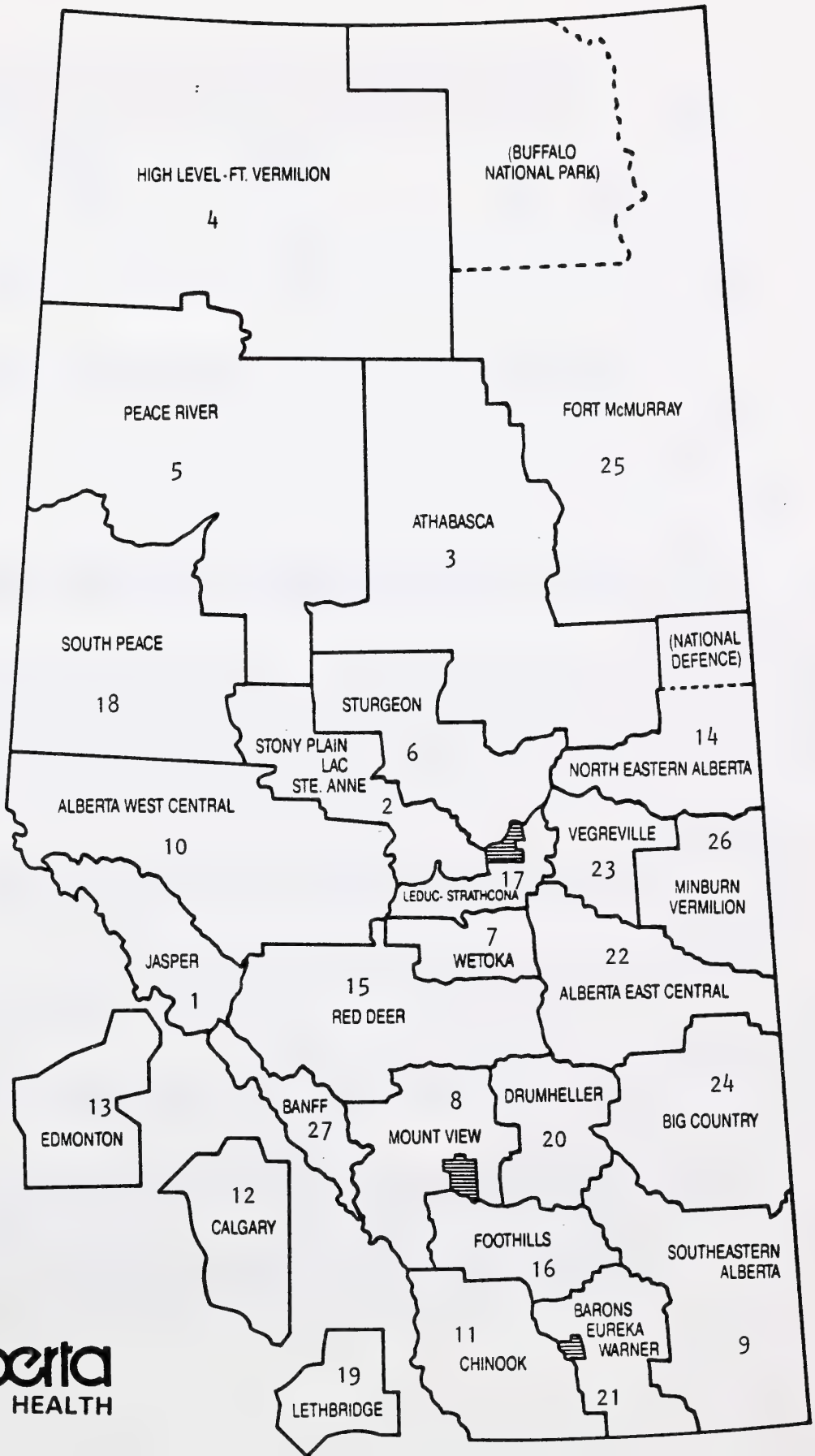
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	56	50	130	112	493	1013	6598
ALBERTA WEST CENTRAL	253	65	0	102	54	105	106	1026	1811	5985
ATHABASCA	525	162	68	162	205	139	216	977	1504	6704
BANFF NATIONAL PARK	3175	0	0	0	0	0	0	0	662	5208
BARONS-EUREKA-WARNER	533	64	0	71	0	72	269	499	1530	5700
BIG COUNTRY	0	0	0	0	0	0	182	162	1025	6596
CALGARY	712	19	16	32	32	80	257	662	1723	6352
CHINOOK	253	0	56	36	102	74	107	552	1546	7187
DRUMHELLER	316	0	36	86	38	214	332	374	1353	5414
EDMONTON	827	39	17	37	73	128	247	694	1466	6125
FOOTHILLS	0	0	36	0	37	137	65	534	1426	6904
FORT MCMURRAY	250	67	0	0	23	91	89	1256	435	4938
HIGH LEVEL-FORT VERMILION	1299	125	109	0	0	137	223	1149	813	8333
JASPER NATIONAL PARK	0	0	0	0	0	0	599	1064	4706	4706
LEDUC-STRATHCONA	120	58	10	69	45	82	247	549	1378	6211
LETHBRIDGE	640	0	0	44	55	154	264	445	1115	6052
MINBURN-VERMILION	275	0	0	0	31	180	119	275	931	5353
MOUNT VIEW	756	0	20	80	52	75	167	622	1648	7342
NORTH EASTERN ALBERTA	604	0	24	0	127	31	100	473	1995	6425
PEACE RIVER	248	68	112	142	32	153	113	403	1963	7837
RED DEER REGIONAL	684	24	21	32	26	122	390	709	1344	6144
SOUTHEASTERN ALBERTA	790	39	33	108	15	72	256	392	1403	7293
SOUTH PEACE	602	0	0	39	96	85	329	702	944	6031
STONY PLAIN-LAC STE. ANNE	326	0	47	95	16	136	171	781	1679	8419
STURGEON	599	30	11	0	36	134	380	745	1959	6989
VEGREVILLE	546	0	43	0	0	98	132	594	1267	5918
WETOKA	588	162	36	81	68	185	256	448	1297	7557
ALBERTA	628	31	21	43	49	106	242	631	1493	6382

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

ALL CAUSES

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	433	370	495	22	0.89	.
ALBERTA WEST CENTRAL	504	383	626	10	1.04	.
ATHABASCA	589	458	720	3	1.22	.
BANFF NATIONAL PARK	323	95	550	27	0.67	.
BARONS-EUREKA-WARNER	436	350	523	21	0.90	.
BIG COUNTRY	377	246	508	24	0.78	.
CALGARY	491	467	516	12	1.01	.
CHINOOK	504	420	588	11	1.04	.
DRUMHELLER	439	347	532	20	0.91	.
EDMONTON	487	463	512	13	1.01	.
FOOTHILLS	464	371	558	16	0.96	.
FORT MCMURRAY	370	137	604	25	0.76	.
HIGH LEVEL-FORT VERMILION	587	285	888	4	1.21	.
JASPER NATIONAL PARK	617	230	1004	1	1.27	.
LEDUC-STRATHCONA	455	382	528	17	0.94	.
LETHBRIDGE	440	379	501	19	0.91	.
MINBURN-VERMILION	359	285	433	26	0.74	.
MOUNT VIEW	529	441	617	8	1.09	.
NORTH EASTERN ALBERTA	485	392	578	14	1.00	.
PEACE RIVER	574	455	693	5	1.19	.
RED DEER REGIONAL	482	426	538	15	1.00	.
SOUTHEASTERN ALBERTA	505	441	570	9	1.04	.
SOUTH PEACE	450	370	530	18	0.93	.
STONY PLAIN-LAC STE. ANNE	591	480	702	2	1.22	YES
STURGEON	553	480	627	6	1.14	YES
VEGREVILLE	420	340	501	23	0.87	.
WETOKA	544	450	637	7	1.12	.
ALBERTA	484	472	497			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

ALL CAUSES, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	0	1	2	6	12	28	50
ALBERTA WEST CENTRAL	0	0	0	0	0	3	0	6	1	5	15
ATHABASCA	0	0	1	0	1	1	2	4	4	10	23
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	1	0	1
BARONS-EUREKA-WARNER	0	0	0	0	0	0	4	4	13	11	32
BIG COUNTRY	0	0	0	0	0	0	0	1	1	4	6
CALGARY	0	0	1	0	3	24	47	94	138	139	446
CHINOOK	0	0	0	0	0	0	1	4	8	10	23
DRUMHELLER	0	0	0	0	0	3	3	2	10	7	25
EDMONTON	0	0	2	2	4	15	35	91	103	141	393
FOOTHILLS	0	0	0	0	0	2	0	6	7	7	22
FORT MCMURRAY	0	0	0	0	0	2	0	4	1	1	8
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	1	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1	1	1	3
LEDUC-STRATHCONA	0	0	0	0	2	4	10	13	11	9	49
LETHBRIDGE	0	0	0	0	0	3	3	5	18	24	53
MINBURN-VERMILION	0	0	0	0	0	3	1	2	2	9	17
MOUNT VIEW	0	0	0	0	2	2	4	5	13	15	41
NORTH EASTERN ALBERTA	0	0	0	0	0	0	2	4	12	8	26
PEACE RIVER	0	0	1	0	1	2	1	4	6	3	18
RED DEER REGIONAL	0	0	1	0	0	5	11	11	21	29	78
SOUTHEASTERN ALBERTA	0	0	1	1	1	1	3	4	16	33	60
SOUTH PEACE	0	0	0	0	3	1	3	7	4	9	27
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	6	3	7	10	12	38
STURGEON	0	0	0	0	2	5	8	11	18	14	58
VEGREVILLE	0	0	0	0	0	0	1	4	7	9	21
WETOKA	0	0	0	0	1	2	3	4	9	14	33
ALBERTA	0	0	7	4	20	85	148	304	447	552	1567

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

ALL CANCER

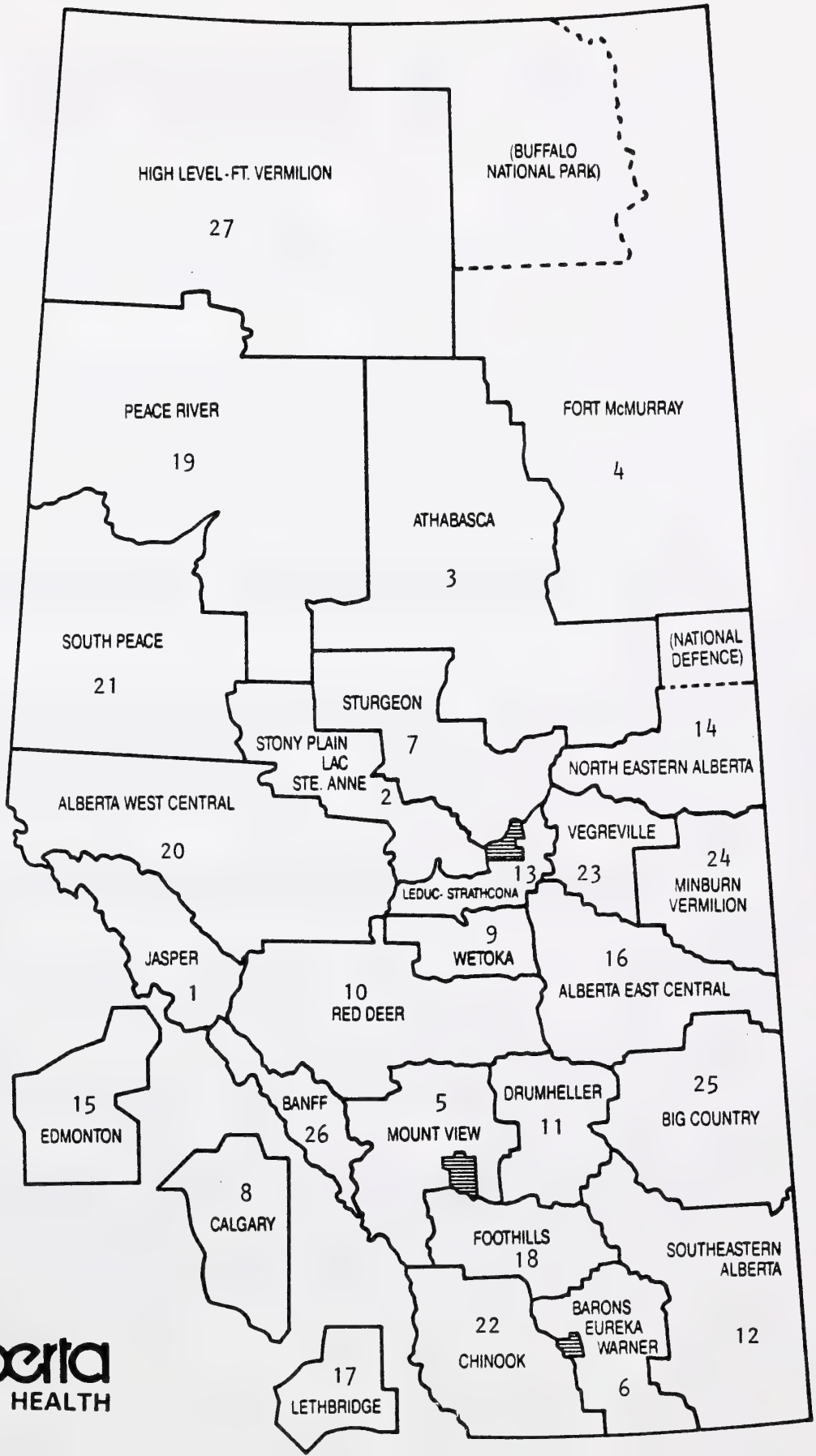
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	28	0	26	75	227	434	1310
ALBERTA WEST CENTRAL	0	0	0	0	0	105	0	560	129	965
ATHABASCA	0	0	34	0	41	46	144	391	501	1862
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	662	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	215	249	995	1063
BIG COUNTRY	0	0	0	0	0	0	0	162	205	1055
CALGARY	0	0	2	0	4	43	144	380	790	1046
CHINOOK	0	0	0	0	0	0	53	221	458	765
DRUMHELLER	0	0	0	0	0	128	199	150	752	743
EDMONTON	0	0	6	4	7	35	118	367	551	998
FOOTHILLS	0	0	0	0	0	69	0	458	526	780
FORT MCMURRAY	0	0	0	0	0	61	0	1005	435	1235
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	223	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1064	1176	1176
LEDUC-STRATHCONA	0	0	0	0	22	37	190	446	562	708
LETHBRIDGE	0	0	0	0	0	66	99	171	647	1002
MINBURN-VERMILION	0	0	0	0	0	108	59	137	133	730
MOUNT VIEW	0	0	0	0	35	38	134	239	765	1394
NORTH EASTERN ALBERTA	0	0	0	0	0	0	100	270	998	829
PEACE RIVER	0	0	28	0	32	77	56	322	654	470
RED DEER REGIONAL	0	0	10	0	0	56	195	252	576	1142
SOUTHEASTERN ALBERTA	0	0	17	18	15	18	85	120	522	1543
SOUTH PEACE	0	0	0	0	48	21	110	351	270	787
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	102	102	364	763	1773
STURGEON	0	0	0	0	24	56	169	372	860	836
VEGREVILLE	0	0	0	0	0	0	66	264	443	683
WETOKA	0	0	0	0	34	74	153	224	584	1230
ALBERTA	0	0	4	2	8	44	126	331	620	1027

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

ALL CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	115	82	147	16	0.91	.
ALBERTA WEST CENTRAL	108	53	163	20	0.85	.
ATHABASCA	173	102	245	3	1.36	.
BANFF NATIONAL PARK	39	-37	115	26	0.31	.
BARONS-EUREKA-WARNER	144	94	193	6	1.13	.
BIG COUNTRY	70	14	126	25	0.55	.
CALGARY	142	129	155	8	1.12	YES
CHINOOK	82	48	115	22	0.65	.
DRUMHELLER	127	76	177	11	1.00	.
EDMONTON	123	110	135	15	0.97	.
FOOTHILLS	110	64	156	18	0.87	.
FORT MCMURRAY	164	25	302	4	1.29	.
HIGH LEVEL-FORT VERMILION	21	-20	63	27	0.17	.
JASPER NATIONAL PARK	199	-30	428	1	1.57	.
LEDUC-STRATHCONA	125	89	161	13	0.98	.
LETHBRIDGE	114	83	145	17	0.90	.
MINBURN-VERMILION	72	37	108	24	0.57	.
MOUNT VIEW	149	103	194	5	1.17	.
NORTH EASTERN ALBERTA	124	76	172	14	0.98	.
PEACE RIVER	110	59	162	19	0.87	.
RED DEER REGIONAL	131	102	160	10	1.03	.
SOUTHEASTERN ALBERTA	126	94	158	12	0.99	.
SOUTH PEACE	99	62	137	21	0.78	.
STONY PLAIN-LAC STE. ANNE	175	117	233	2	1.38	.
STURGEON	144	107	181	7	1.13	.
VEGREVILLE	82	46	117	23	0.65	.
WETOKA	137	90	185	9	1.08	.
ALBERTA	127	121	133			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

ALL CANCER, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	8	8
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	0	0	0	1
ATHABASCA	0	0	0	0	0	0	0	0	1	1	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	1	2	3
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	1	1	7	11	16	37
CHINOOK	0	0	0	0	0	0	0	0	1	1	2
DRUMHELLER	0	0	0	0	0	0	1	1	1	1	4
EDMONTON	0	0	0	0	0	0	3	10	9	18	40
FOOTHILLS	0	0	0	0	0	0	0	1	1	1	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	0	1	0	2	4
LETHBRIDGE	0	0	0	0	0	0	1	1	0	5	7
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	1	0	4	2	7
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	0	1
PEACE RIVER	0	0	0	0	0	0	0	1	0	0	1
RED DEER REGIONAL	0	0	0	0	0	1	3	0	6	3	13
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	0	1	6	8
SOUTH PEACE	0	0	0	0	0	0	0	0	1	3	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	2	3
STURGEON	0	0	0	0	0	0	2	1	2	2	7
VEGREVILLE	0	0	0	0	0	0	0	1	0	4	5
WETOKA	0	0	0	0	0	0	0	0	1	3	4
ALBERTA	0	0	0	0	1	4	13	24	42	80	164

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

COLON CANCER

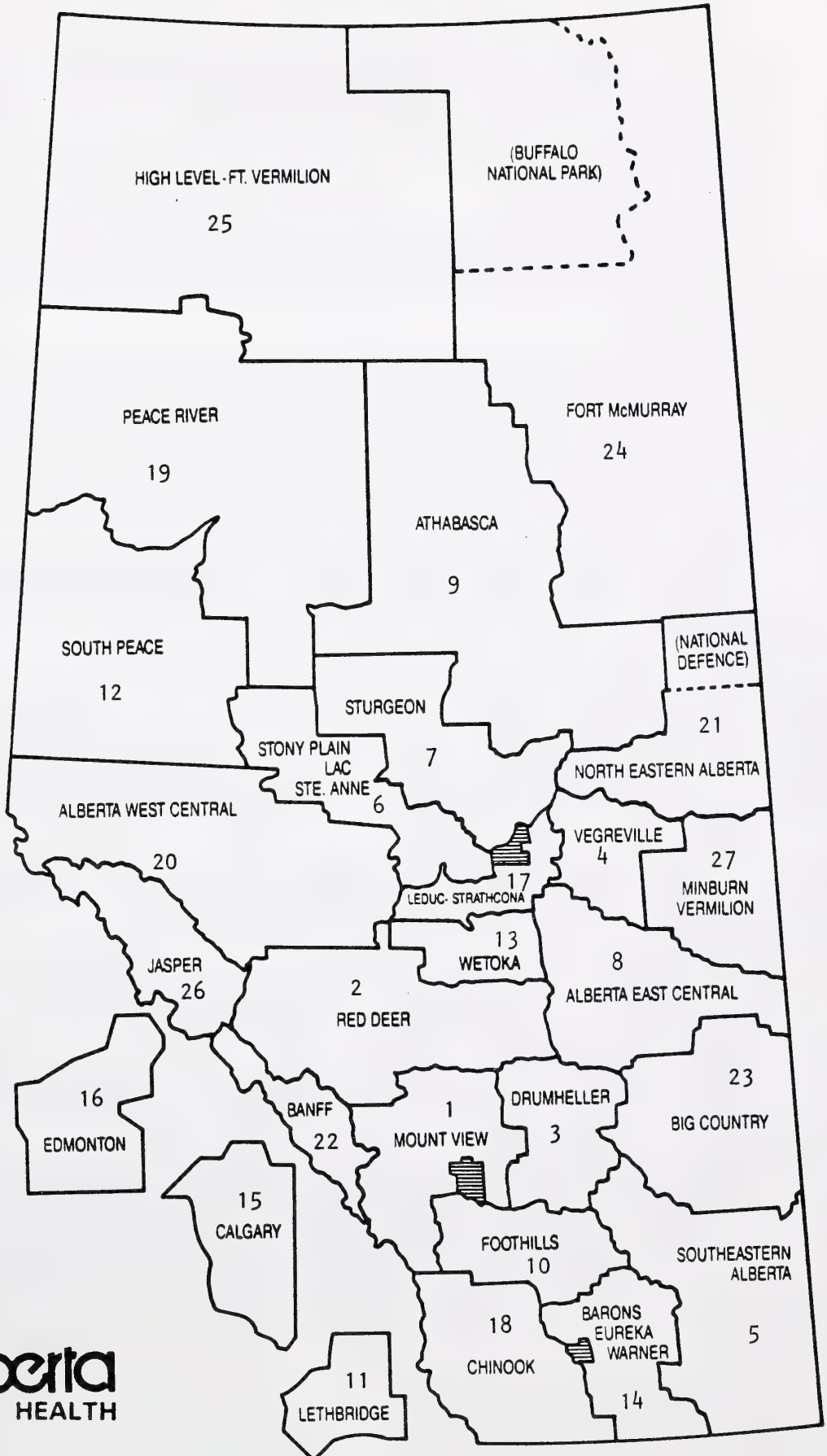
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	374
ALBERTA WEST CENTRAL	0	0	0	0	0	35	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	125	186
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	77	193
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	2	3	28	63	120
CHINOOK	0	0	0	0	0	0	0	0	57	76
DRUMHELLER	0	0	0	0	0	0	66	75	75	106
EDMONTON	0	0	0	0	0	0	10	40	48	127
FOOTHILLS	0	0	0	0	0	0	0	76	75	111
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	9	0	34	0	157
LETHBRIDGE	0	0	0	0	0	0	33	34	0	209
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	33	0	235	186
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	83	0
PEACE RIVER	0	0	0	0	0	0	0	81	0	0
RED DEER REGIONAL	0	0	0	0	0	11	53	0	165	118
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	0	33	281
SOUTH PEACE	0	0	0	0	0	0	0	0	67	262
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	76	295
STURGEON	0	0	0	0	0	0	42	34	96	119
VEGREVILLE	0	0	0	0	0	0	0	66	0	303
WETOKA	0	0	0	0	0	0	0	0	65	264
ALBERTA	0	0	0	0	0	2	11	26	58	149

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

COLON CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	16	5	28	8	1.23	.
ALBERTA WEST CENTRAL	5	-5	16	20	0.38	.
ATHABASCA	15	-6	37	9	1.15	.
BANFF NATIONAL PARK	0	0	0	22	0.00	.
BARONS-EUREKA-WARNER	13	-2	28	14	1.00	.
BIG COUNTRY	0	0	0	23	0.00	.
CALGARY	12	8	16	15	0.92	.
CHINOOK	7	-3	16	18	0.54	.
DRUMHELLER	21	0	42	3	1.62	.
EDMONTON	12	9	16	16	0.92	.
FOOTHILLS	15	-2	32	10	1.15	.
FORT MCMURRAY	0	0	0	24	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.00	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	11	0	22	17	0.85	.
LETHBRIDGE	15	4	26	11	1.15	.
MINBURN-VERMILION	0	0	0	27	0.00	.
MOUNT VIEW	25	6	44	1	1.92	.
NORTH EASTERN ALBERTA	5	-5	14	21	0.38	.
PEACE RIVER	6	-6	18	19	0.46	.
RED DEER REGIONAL	22	10	33	2	1.69	.
SOUTHEASTERN ALBERTA	17	5	29	5	1.31	.
SOUTH PEACE	15	0	30	12	1.15	.
STONY PLAIN-LAC STE. ANNE	17	-3	37	6	1.31	.
STURGEON	17	4	30	7	1.31	.
VEGREVILLE	18	2	34	4	1.38	.
WETOKA	15	0	30	13	1.15	.
ALBERTA	13	11	15			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

COLON CANCER, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	1	3	2	3	9
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	1	1	1	4
ATHABASCA	0	0	0	0	0	0	0	1	1	1	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	2	0	2
BIG COUNTRY	0	0	0	0	0	0	0	1	0	1	2
CALGARY	0	0	0	0	0	0	8	21	36	25	90
CHINOOK	0	0	0	0	0	0	0	2	0	0	2
DRUMHELLER	0	0	0	0	0	1	1	0	1	0	3
EDMONTON	0	0	0	0	0	2	7	17	27	19	72
FOOTHILLS	0	0	0	0	0	0	0	1	0	2	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	1	4	1	0	6
LETHBRIDGE	0	0	0	0	0	0	0	1	4	4	9
MINBURN-VERMILION	0	0	0	0	0	1	0	0	0	0	1
MOUNT VIEW	0	0	0	0	0	0	0	1	2	4	7
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	5	0	5
PEACE RIVER	0	0	0	0	0	0	0	1	1	0	2
RED DEER REGIONAL	0	0	0	0	0	0	2	2	4	5	13
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	0	4	2	7
SOUTH PEACE	0	0	0	0	0	0	1	2	0	1	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	2	0	3	0	2	7
STURGEON	0	0	0	0	0	0	4	3	3	0	10
VEGREVILLE	0	0	0	0	0	0	0	0	1	0	1
WETOKA	0	0	0	0	0	0	0	1	2	0	3
ALBERTA	0	0	0	0	0	7	26	65	97	70	265

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

LUNG CANCER

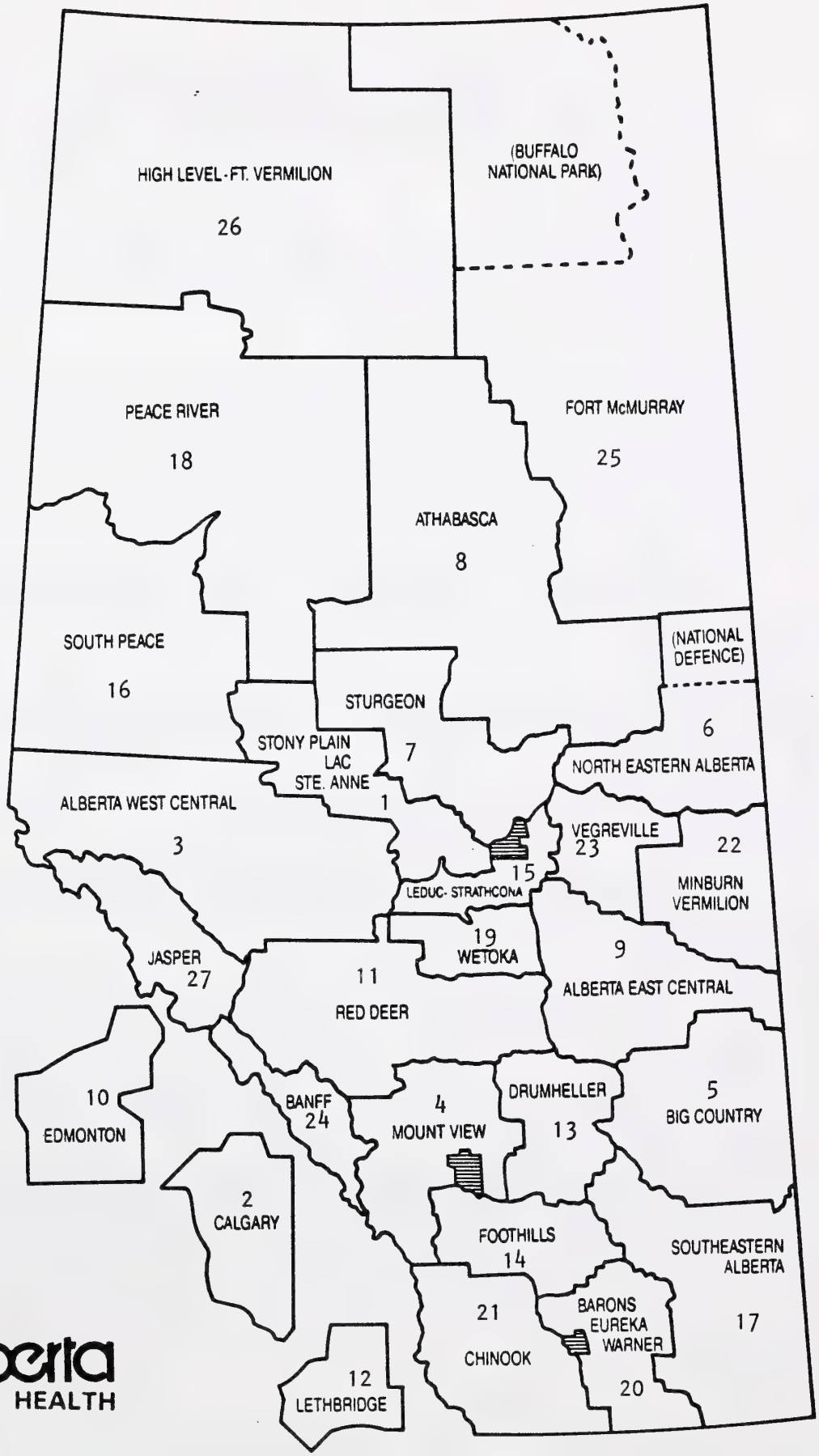
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	37	114	72	140
ALBERTA WEST CENTRAL	0	0	0	0	0	35	0	93	129	193
ATHABASCA	0	0	0	0	0	0	0	98	125	186
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	153	0
BIG COUNTRY	0	0	0	0	0	0	0	162	0	264
CALGARY	0	0	0	0	0	0	24	85	206	188
CHINOOK	0	0	0	0	0	0	0	110	0	0
DRUMHELLER	0	0	0	0	0	43	66	0	75	0
EDMONTON	0	0	0	0	0	5	24	69	144	135
FOOTHILLS	0	0	0	0	0	0	0	76	0	223
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	19	137	51	0
LETHBRIDGE	0	0	0	0	0	0	0	34	144	167
MINBURN-VERMILION	0	0	0	0	0	36	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	48	118	372
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	416	0
PEACE RIVER	0	0	0	0	0	0	0	81	109	0
RED DEER REGIONAL	0	0	0	0	0	0	35	46	110	197
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	0	131	94
SOUTH PEACE	0	0	0	0	0	0	37	100	0	87
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	34	0	156	0	295
STURGEON	0	0	0	0	0	0	84	102	143	0
VEGREVILLE	0	0	0	0	0	0	0	0	63	0
WETOKA	0	0	0	0	0	0	0	56	130	0
ALBERTA	0	0	0	0	0	4	22	71	135	130

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

LUNG CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	22	7	37	9	1.00	.
ALBERTA WEST CENTRAL	28	0	57	3	1.27	.
ATHABASCA	23	-3	48	8	1.05	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS-EUREKA-WARNER	9	-3	21	20	0.41	.
BIG COUNTRY	24	-9	56	5	1.09	.
CALGARY	29	23	35	2	1.32	YES
CHINOOK	8	-3	20	21	0.36	.
DRUMHELLER	17	-3	37	13	0.77	.
EDMONTON	22	17	28	10	1.00	.
FOOTHILLS	15	-2	33	14	0.68	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	15	3	27	15	0.68	.
LETHBRIDGE	18	6	30	12	0.82	.
MINBURN-VERMILION	6	-5	17	22	0.27	.
MOUNT VIEW	27	7	46	4	1.23	.
NORTH EASTERN ALBERTA	24	3	46	6	1.09	.
PEACE RIVER	12	-5	30	18	0.55	.
RED DEER REGIONAL	22	10	34	11	1.00	.
SOUTHEASTERN ALBERTA	14	4	25	17	0.64	.
SOUTH PEACE	15	0	29	16	0.68	.
STONY PLAIN-LAC STE. ANNE	30	6	53	1	1.36	.
STURGEON	24	9	39	7	1.09	.
VEGREVILLE	4	-4	11	23	0.18	.
WETOKA	12	-2	25	19	0.55	.
ALBERTA	22	19	24			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

LUNG CANCER, FEMALES, 1990

4.18

NUMBER OF FEMALE DEATHS, 1990

DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	3	6	10
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	2	3
ATHABASCA	0	0	0	0	0	0	0	1	0	1	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	1	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	1	1	2
CALGARY	0	0	0	0	1	1	0	2	5	15	24
CHINOOK	0	0	0	0	0	0	0	0	0	4	4
DRUMHELLER	0	0	0	0	0	0	1	0	0	1	2
EDMONTON	0	1	0	0	0	2	1	3	9	23	39
FOOTHILLS	0	0	1	0	0	0	0	0	1	1	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	2	2
LETHBRIDGE	0	0	0	0	1	0	0	0	0	2	3
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	1	1
MOUNT VIEW	0	0	0	0	0	0	0	0	0	2	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	3	3
PEACE RIVER	0	0	0	0	0	0	0	0	0	1	1
RED DEER REGIONAL	0	0	0	0	0	0	0	0	2	5	7
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	1	2	3
SOUTH PEACE	0	0	0	0	1	0	0	0	0	3	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	3	3
STURGEON	0	0	0	0	0	0	1	0	2	4	7
VEGREVILLE	0	0	0	0	0	0	0	0	0	3	3
WETOKA	0	0	0	0	0	0	0	0	1	2	3
ALBERTA	0	1	1	0	3	3	3	7	27	87	132

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

DIABETES MELLITUS

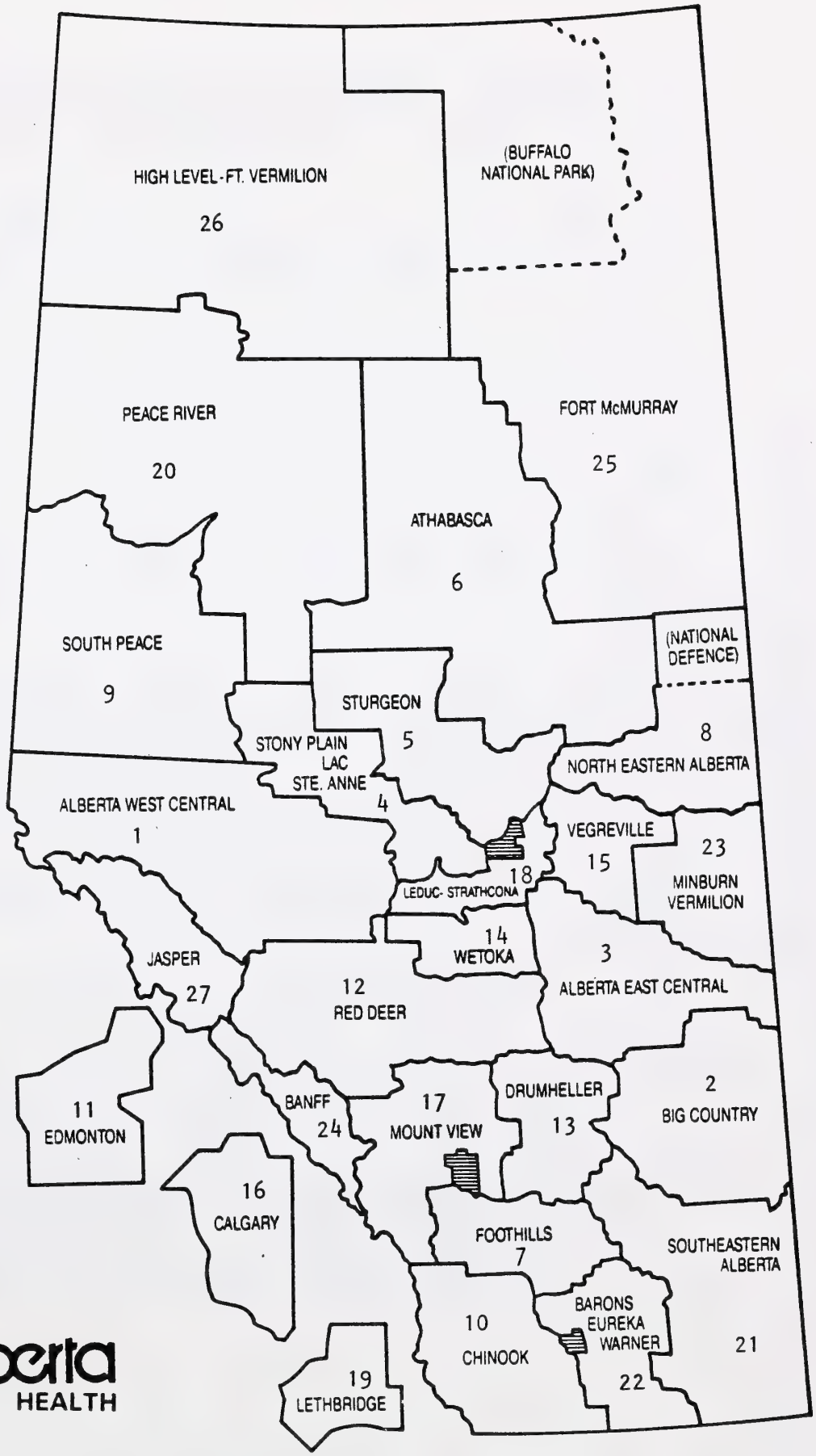
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	38	108	281
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	129	386
ATHABASCA	0	0	0	0	0	0	0	98	0	186
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	77	0
BIG COUNTRY	0	0	0	0	0	0	0	0	205	264
CALGARY	0	0	0	0	1	2	0	8	29	113
CHINOOK	0	0	0	0	0	0	0	0	0	306
DRUMHELLER	0	0	0	0	0	0	66	0	0	106
EDMONTON	0	6	0	0	0	5	3	12	48	163
FOOTHILLS	0	0	36	0	0	0	0	0	75	111
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	157
LETHBRIDGE	0	0	0	0	18	0	0	0	0	83
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	81
MOUNT VIEW	0	0	0	0	0	0	0	0	0	186
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	311
PEACE RIVER	0	0	0	0	0	0	0	0	0	157
RED DEER REGIONAL	0	0	0	0	0	0	0	0	55	197
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	33	94
SOUTH PEACE	0	0	0	0	16	0	0	0	0	262
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	443
STURGEON	0	0	0	0	0	0	21	0	96	239
VEGREVILLE	0	0	0	0	0	0	0	0	0	228
WETOKA	0	0	0	0	0	0	0	0	65	176
ALBERTA	0	1	1	0	1	2	3	8	37	162

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

DIABETES MELLITUS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	21	8	35	3	1.91	.
ALBERTA WEST CENTRAL	24	-3	52	1	2.18	.
ATHABASCA	15	-6	37	6	1.36	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS-EUREKA-WARNER	4	-4	13	22	0.36	.
BIG COUNTRY	23	-9	56	2	2.09	.
CALGARY	8	5	11	16	0.73	.
CHINOOK	13	0	26	10	1.18	.
DRUMHELLER	11	-4	26	13	1.00	.
EDMONTON	12	8	16	11	1.09	.
FOOTHILLS	15	-2	31	7	1.36	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	7	-3	16	18	0.64	.
LETHBRIDGE	7	-1	16	19	0.64	.
MINBURN-VERMILION	4	-3	10	23	0.36	.
MOUNT VIEW	8	-3	19	17	0.73	.
NORTH EASTERN ALBERTA	14	-2	29	8	1.27	.
PEACE RIVER	7	-7	20	20	0.64	.
RED DEER REGIONAL	12	3	21	12	1.09	.
SOUTHEASTERN ALBERTA	6	-1	13	21	0.55	.
SOUTH PEACE	14	0	29	9	1.27	.
STONY PLAIN-LAC STE. ANNE	19	-3	41	4	1.73	.
STURGEON	18	5	31	5	1.64	.
VEGREVILLE	10	-1	21	15	0.91	.
WETOKA	11	-2	24	14	1.00	.
ALBERTA	11	9	13			

HEALTH UNITS OF ALBERTA



Alberta
HEALTH

DIABETES MELLITUS, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	3	5	38	46
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	3	5	9	18
ATHABASCA	0	0	0	0	0	0	0	1	7	7	15
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	1	1
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	5	23	29
BIG COUNTRY	0	0	0	0	0	0	0	0	1	7	8
CALGARY	0	0	0	0	0	3	6	22	47	195	273
CHINOOK	0	0	0	0	0	0	1	1	7	24	33
DRUMHELLER	0	0	0	0	1	0	0	0	3	13	17
EDMONTON	0	0	0	0	0	2	4	23	50	222	301
FOOTHILLS	0	0	0	0	0	0	0	0	4	14	18
FORT MCMURRAY	0	0	0	0	1	0	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	3	3
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	2	0	2
LEDUC-STRATHCONA	0	0	0	0	0	0	2	1	6	23	32
LETHBRIDGE	0	0	0	0	0	0	0	3	7	35	45
MINBURN-VERMILION	0	0	0	0	0	0	0	0	6	25	31
MOUNT VIEW	0	0	0	0	0	0	0	3	2	24	29
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	6	12	19
PEACE RIVER	0	0	0	0	0	0	1	1	7	13	22
RED DEER REGIONAL	0	0	0	0	0	0	1	7	4	36	48
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	2	13	37	53
SOUTH PEACE	0	0	0	0	0	1	3	1	2	21	28
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	1	4	6	11	22
STURGEON	0	0	0	0	0	1	1	4	9	41	56
VEGREVILLE	0	0	0	0	0	0	0	0	2	21	23
WETOKA	0	0	0	0	0	1	0	1	4	19	25
ALBERTA	0	0	0	0	2	8	22	82	210	874	1198

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

ISCHEMIC HEART DISEASE

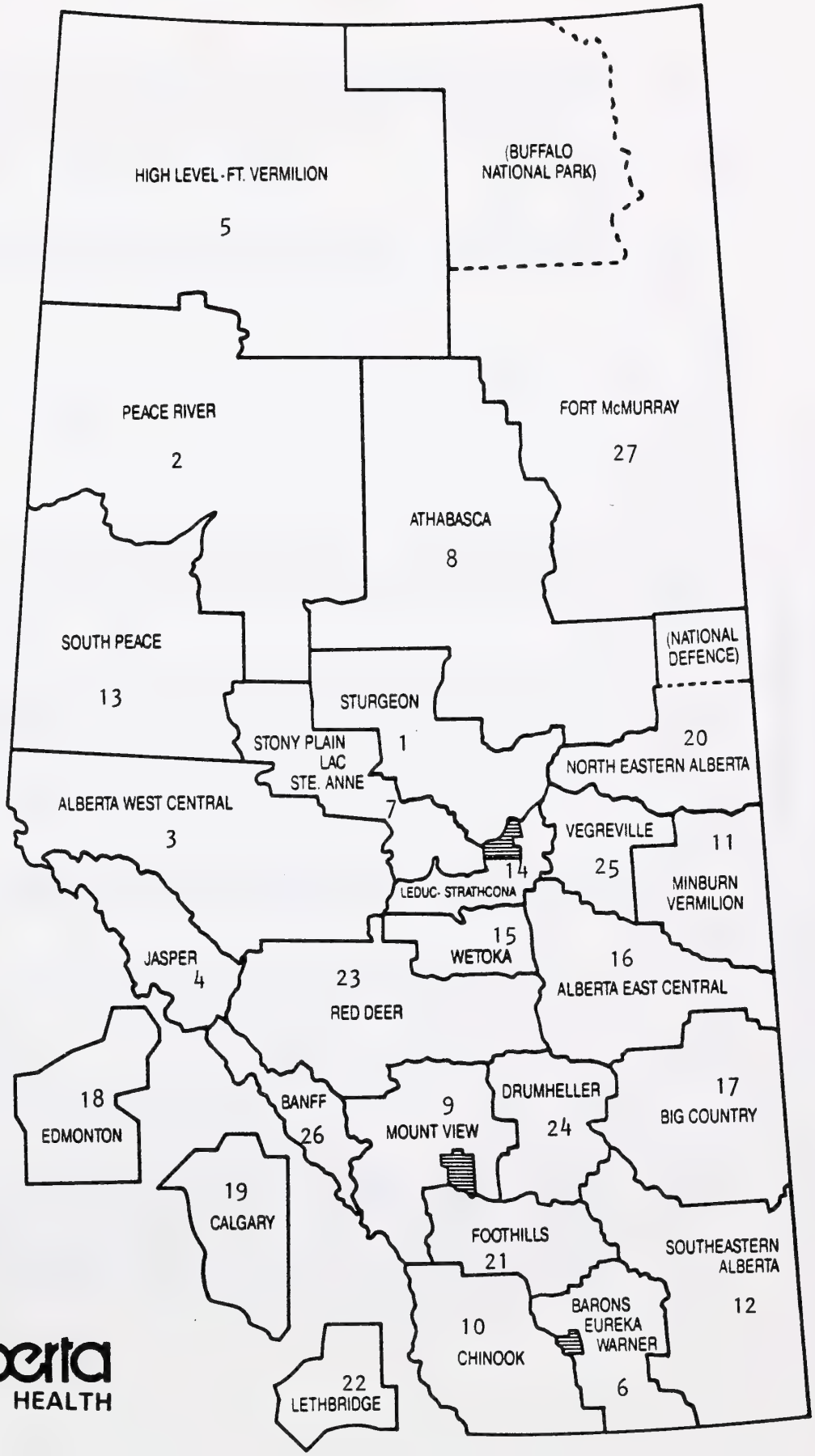
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	114	181	1778
ALBERTA WEST CENTRAL	0	0	0	0	0	0	53	280	647	1737
ATHABASCA	0	0	0	0	0	0	0	98	877	1304
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	1042
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	62	383	2222
BIG COUNTRY	0	0	0	0	0	0	0	0	205	1847
CALGARY	0	0	0	0	0	5	18	89	269	1467
CHINOOK	0	0	0	0	0	0	53	55	401	1835
DRUMHELLER	0	0	0	0	38	0	0	0	226	1380
EDMONTON	0	0	0	0	0	5	14	93	268	1572
FOOTHILLS	0	0	0	0	0	0	0	0	300	1559
FORT MCMURRAY	0	0	0	0	23	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	3125
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	2353	0
LEDUC-STRATHCONA	0	0	0	0	0	0	38	34	306	1808
LETHBRIDGE	0	0	0	0	0	0	0	103	252	1461
MINBURN-VERMILION	0	0	0	0	0	0	0	0	399	2028
MOUNT VIEW	0	0	0	0	0	0	0	144	118	2230
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	68	499	1244
PEACE RIVER	0	0	0	0	0	0	56	81	763	2038
RED DEER REGIONAL	0	0	0	0	0	0	18	160	110	1418
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	60	424	1730
SOUTH PEACE	0	0	0	0	0	21	110	50	135	1836
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	34	208	458	1625
STURGEON	0	0	0	0	0	11	21	135	430	2449
VEGREVILLE	0	0	0	0	0	0	0	0	127	1593
WETOKA	0	0	0	0	0	37	0	56	259	1670
ALBERTA	0	0	0	0	1	4	19	89	291	1627

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

ISCHEMIC HEART DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	97	69	125	16	1.00	.
ALBERTA WEST CENTRAL	139	75	204	3	1.43	.
ATHABASCA	115	57	174	8	1.19	.
BANFF NATIONAL PARK	45	-44	134	26	0.46	.
BARONS-EUREKA-WARNER	124	79	169	6	1.28	.
BIG COUNTRY	93	28	157	17	0.96	.
CALGARY	89	79	100	19	0.92	.
CHINOOK	113	74	151	10	1.16	.
DRUMHELLER	81	42	120	24	0.84	.
EDMONTON	93	83	104	18	0.96	.
FOOTHILLS	86	46	125	21	0.89	.
FORT MCMURRAY	4	-4	13	27	0.04	.
HIGH LEVEL-FORT VERMILION	136	-18	291	5	1.40	.
JASPER NATIONAL PARK	138	-53	328	4	1.42	.
LEDUC-STRATHCONA	103	67	139	14	1.06	.
LETHBRIDGE	86	61	111	22	0.89	.
MINBURN-VERMILION	112	72	151	11	1.15	.
MOUNT VIEW	115	73	157	9	1.19	.
NORTH EASTERN ALBERTA	88	49	128	20	0.91	.
PEACE RIVER	145	84	206	2	1.49	.
RED DEER REGIONAL	82	59	105	23	0.85	.
SOUTHEASTERN ALBERTA	107	78	136	12	1.10	.
SOUTH PEACE	105	66	145	13	1.08	.
STONY PLAIN-LAC STE. ANNE	116	67	166	7	1.20	.
STURGEON	146	108	184	1	1.51	YES
VEGREVILLE	77	45	108	25	0.79	.
WETOKA	98	59	137	15	1.01	.
ALBERTA	97	92	103			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

ISCHEMIC HEART DISEASE, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	0	16	17
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	1	4	6
ATHABASCA	0	0	0	1	0	0	0	0	1	2	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	1	2	4
BIG COUNTRY	0	0	0	0	0	0	0	0	1	2	3
CALGARY	0	0	0	0	2	1	6	9	11	106	135
CHINOOK	0	0	0	0	0	0	0	0	3	9	12
DRUMHELLER	0	0	0	0	0	0	0	0	0	8	8
EDMONTON	0	0	0	0	0	0	3	6	14	113	136
FOOTHILLS	0	0	0	0	0	0	0	0	2	6	8
FORT MCMURRAY	0	0	0	0	0	1	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	1	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	8	8
LETHBRIDGE	0	0	0	0	1	1	0	1	1	15	19
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	9	10
MOUNT VIEW	0	0	0	0	0	0	0	0	0	2	2
NORTH EASTERN ALBERTA	0	0	0	0	1	0	0	0	1	5	7
PEACE RIVER	0	0	0	0	0	0	0	0	1	6	7
RED DEER REGIONAL	0	0	0	0	0	0	1	4	3	27	35
SOUTHEASTERN ALBERTA	0	0	0	1	0	1	0	2	2	26	32
SOUTH PEACE	0	0	0	0	0	0	0	0	0	11	11
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	2	2
STURGEON	0	0	0	0	0	1	2	1	0	18	22
VEGREVILLE	0	0	0	0	0	0	0	0	3	10	13
WETOKA	0	0	0	0	0	0	0	1	1	15	17
ALBERTA	0	0	0	2	4	5	12	27	47	423	520

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

CEREBROVASCULAR DISEASE

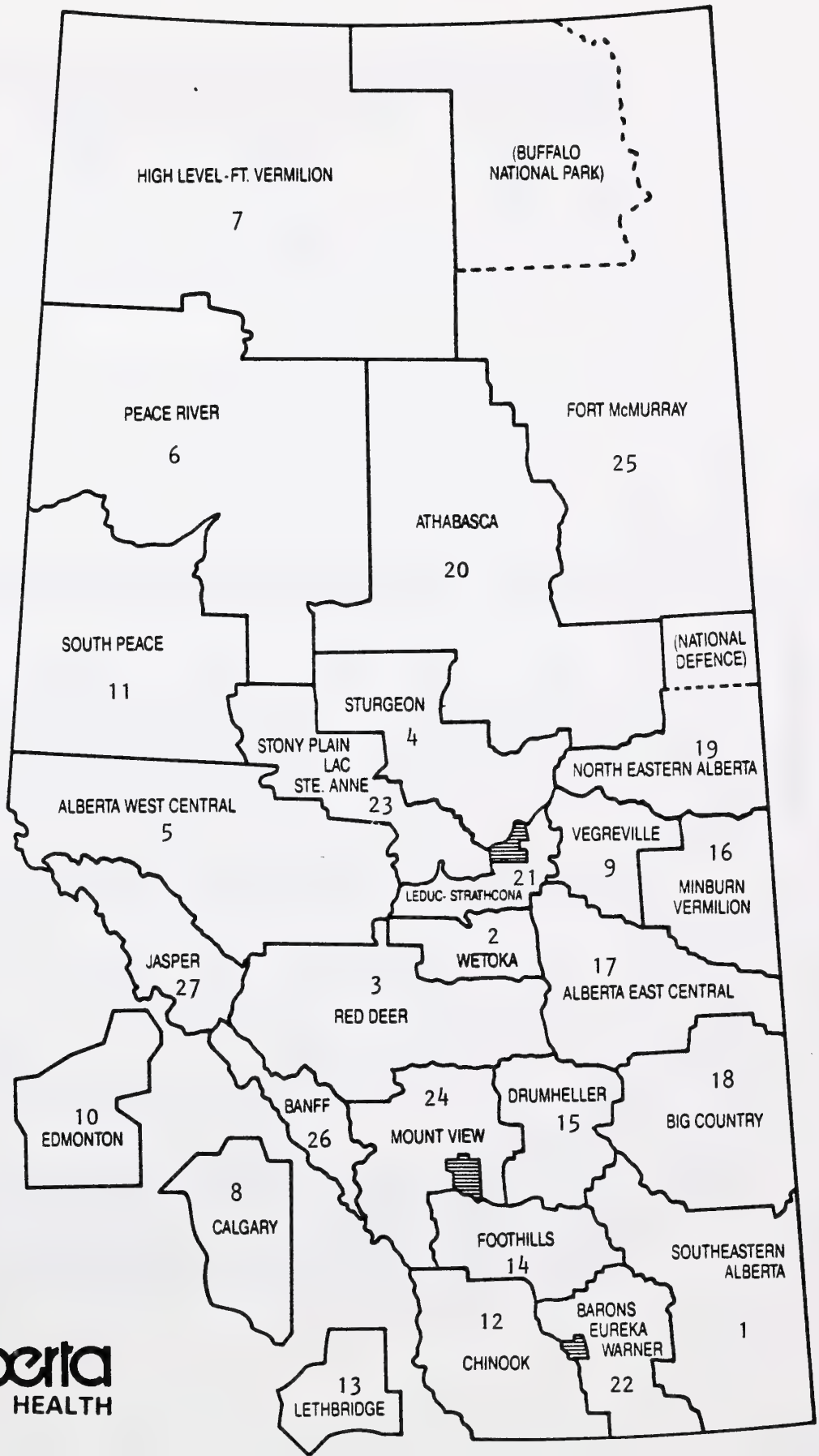
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	38	0	749
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	93	129	772
ATHABASCA	0	0	0	41	0	0	0	0	125	372
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	62	77	193
BIG COUNTRY	0	0	0	0	0	0	0	0	205	528
CALGARY	0	0	0	0	3	2	18	36	63	798
CHINOOK	0	0	0	0	0	0	0	0	172	688
DRUMHELLER	0	0	0	0	0	0	0	0	0	849
EDMONTON	0	0	0	0	0	0	10	24	75	800
FOOTHILLS	0	0	0	0	0	0	0	0	150	668
FORT MCMURRAY	0	0	0	0	0	30	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	1042
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	629
LETHBRIDGE	0	0	0	0	18	22	0	34	36	626
MINBURN-VERMILION	0	0	0	0	0	0	0	0	67	730
MOUNT VIEW	0	0	0	0	0	0	0	0	0	186
NORTH EASTERN ALBERTA	0	0	0	0	25	0	0	0	83	518
PEACE RIVER	0	0	0	0	0	0	0	0	109	940
RED DEER REGIONAL	0	0	0	0	0	0	18	92	82	1063
SOUTHEASTERN ALBERTA	0	0	0	18	0	18	0	60	65	1216
SOUTH PEACE	0	0	0	0	0	0	0	0	0	962
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	295
STURGEON	0	0	0	0	0	11	42	34	0	1075
VEGREVILLE	0	0	0	0	0	0	0	0	190	759
WETOKA	0	0	0	0	0	0	0	56	65	1318
ALBERTA	0	0	0	1	2	3	10	29	65	787

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

CEREBROVASCULAR DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	35	19	52	17	0.83	.
ALBERTA WEST CENTRAL	48	10	87	5	1.14	.
ATHABASCA	30	0	59	20	0.71	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	18	0	35	22	0.43	.
BIG COUNTRY	35	-5	75	18	0.83	.
CALGARY	44	36	51	8	1.05	.
CHINOOK	40	17	63	12	0.95	.
DRUMHELLER	37	11	63	15	0.88	.
EDMONTON	42	35	49	10	1.00	.
FOOTHILLS	38	12	64	14	0.90	.
FORT MCMURRAY	5	-5	14	25	0.12	.
HIGH LEVEL-FORT VERMILION	45	-44	134	7	1.07	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	27	8	46	21	0.64	.
LETHBRIDGE	39	21	57	13	0.93	.
MINBURN-VERMILION	36	14	58	16	0.86	.
MOUNT VIEW	8	-3	19	24	0.19	.
NORTH EASTERN ALBERTA	32	8	56	19	0.76	.
PEACE RIVER	47	12	83	6	1.12	.
RED DEER REGIONAL	60	40	79	3	1.43	YES
SOUTHEASTERN ALBERTA	67	44	90	1	1.60	YES
SOUTH PEACE	42	17	67	11	1.00	.
STONY PLAIN-LAC STE. ANNE	13	-5	31	23	0.31	.
STURGEON	55	32	78	4	1.31	.
VEGREVILLE	44	20	68	9	1.05	.
WETOKA	65	34	97	2	1.55	.
ALBERTA	42	39	46			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

CEREBROVASCULAR DISEASE, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	1	9	10
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	3	3
ATHABASCA	0	0	0	0	0	0	0	0	0	3	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	2	2
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	5	5
BIG COUNTRY	0	0	0	0	0	0	0	0	0	5	5
CALGARY	0	0	0	0	0	0	1	2	6	52	61
CHINOOK	0	0	0	0	0	0	0	0	1	10	11
DRUMHELLER	0	0	0	0	0	0	0	0	1	2	3
EDMONTON	0	0	0	0	0	0	1	5	4	33	43
FOOTHILLS	0	0	0	0	0	0	0	0	0	8	8
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	1	0	0	0	0	0	1	0	3	5
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	1	1
LEDUC-STRATHCONA	0	0	0	0	0	1	0	0	0	7	8
LETHBRIDGE	0	0	0	0	0	0	0	1	0	11	12
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	6	6
MOUNT VIEW	0	0	1	0	0	0	0	0	2	4	7
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	3	3
PEACE RIVER	0	0	0	0	0	0	0	0	0	2	2
RED DEER REGIONAL	0	0	0	0	0	0	0	2	8	16	26
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	0	1	10	12
SOUTH PEACE	0	0	0	0	0	0	0	0	0	2	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	3	3
STURGEON	0	0	0	0	0	0	0	0	0	7	7
VEGREVILLE	0	0	0	0	0	0	0	0	0	6	6
WETOKA	0	0	0	0	0	0	0	0	0	8	8
ALBERTA	0	1	1	0	0	1	3	11	24	221	262

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

PNEUMONIA

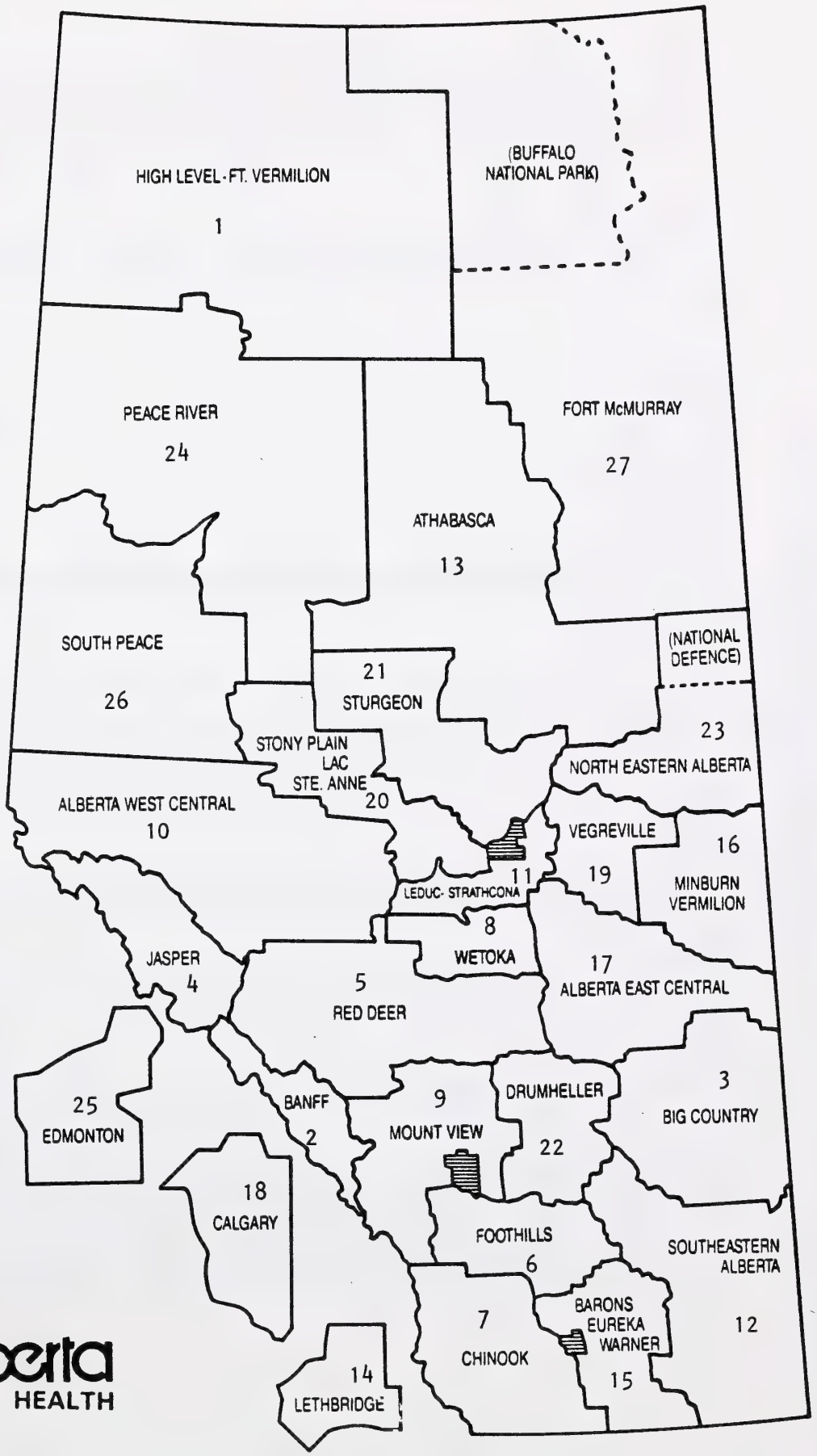
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	36	421
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	579
ATHABASCA	0	0	0	0	0	0	0	0	0	559
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	2083
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	483
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1319
CALGARY	0	0	0	0	0	0	3	8	34	391
CHINOOK	0	0	0	0	0	0	0	0	57	765
DRUMHELLER	0	0	0	0	0	0	0	0	75	212
EDMONTON	0	0	0	0	0	0	3	20	21	234
FOOTHILLS	0	0	0	0	0	0	0	0	0	891
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	125	0	0	0	0	0	575	0	3125
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	1176
LEDUC-STRATHCONA	0	0	0	0	0	9	0	0	0	550
LETHBRIDGE	0	0	0	0	0	0	0	34	0	459
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	487
MOUNT VIEW	0	0	20	0	0	0	0	0	118	372
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	311
PEACE RIVER	0	0	0	0	0	0	0	0	0	313
RED DEER REGIONAL	0	0	0	0	0	0	0	46	219	630
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	0	33	468
SOUTH PEACE	0	0	0	0	0	0	0	0	0	175
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	443
STURGEON	0	0	0	0	0	0	0	0	0	418
VEGREVILLE	0	0	0	0	0	0	0	0	0	455
WETOKA	0	0	0	0	0	0	0	0	0	703
ALBERTA	0	1	1	0	0	1	3	12	33	411

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

PNEUMONIA

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	20	8	33	17	0.95	.
ALBERTA WEST CENTRAL	25	-3	54	10	1.19	.
ATHABASCA	24	-3	52	13	1.14	.
BANFF NATIONAL PARK	91	-35	217	2	4.33	.
BARONS-EUREKA-WARNER	21	3	40	15	1.00	.
BIG COUNTRY	58	7	108	3	2.76	.
CALGARY	20	15	25	18	0.95	.
CHINOOK	37	15	58	7	1.76	.
DRUMHELLER	14	-2	29	22	0.67	.
EDMONTON	13	9	17	25	0.62	.
FOOTHILLS	39	12	66	6	1.86	.
FORT MCMURRAY	0	0	0	27	0.00	.
HIGH LEVEL-FORT VERMILION	187	11	364	1	8.90	YES
JASPER NATIONAL PARK	51	-49	152	4	2.43	.
LEDUC-STRATHCONA	25	7	43	11	1.19	.
LETHBRIDGE	23	10	35	14	1.10	.
MINBURN-VERMILION	21	4	38	16	1.00	.
MOUNT VIEW	26	7	45	9	1.24	.
NORTH EASTERN ALBERTA	14	-2	29	23	0.67	.
PEACE RIVER	14	-5	33	24	0.67	.
RED DEER REGIONAL	44	27	61	5	2.10	YES
SOUTHEASTERN ALBERTA	25	11	39	12	1.19	.
SOUTH PEACE	8	-3	18	26	0.38	.
STONY PLAIN-LAC STE. ANNE	19	-3	41	20	0.90	.
STURGEON	18	5	32	21	0.86	.
VEGREVILLE	20	4	36	19	0.95	.
WETOKA	31	9	52	8	1.48	.
ALBERTA	21	19	24			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

PNEUMONIA, FEMALES, 1990

4.34

NUMBER OF FEMALE DEATHS, 1990

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	8	8
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	3	1	4
ATHABASCA	0	0	0	0	0	0	0	1	0	1	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	1	0	1
CALGARY	0	0	0	1	0	1	1	5	18	37	63
CHINOOK	0	0	0	0	0	0	0	0	0	3	3
DRUMHELLER	0	0	0	0	0	0	0	0	0	2	2
EDMONTON	0	0	0	1	0	0	1	5	11	22	40
FOOTHILLS	0	0	0	0	0	0	0	0	0	2	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	1	0	0	0	2	2	5
LETHBRIDGE	0	0	0	0	0	0	0	0	1	4	5
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	2	3
MOUNT VIEW	0	0	0	0	0	0	0	0	2	0	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	2	2
PEACE RIVER	0	0	0	0	0	0	0	0	1	1	2
RED DEER REGIONAL	0	0	0	0	0	1	0	2	5	2	10
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	1	1	4	6
SOUTH PEACE	0	0	0	0	0	0	0	0	1	2	3
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	2	1	0	3
STURGEON	0	0	0	0	0	0	1	1	0	4	6
VEGREVILLE	0	0	0	0	0	0	0	0	1	1	2
WETOKA	0	0	0	0	0	0	0	0	1	2	3
ALBERTA	0	0	0	2	1	2	3	17	50	102	177

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

CHRONIC OBSTRUCTIVE LUNG DISEASE

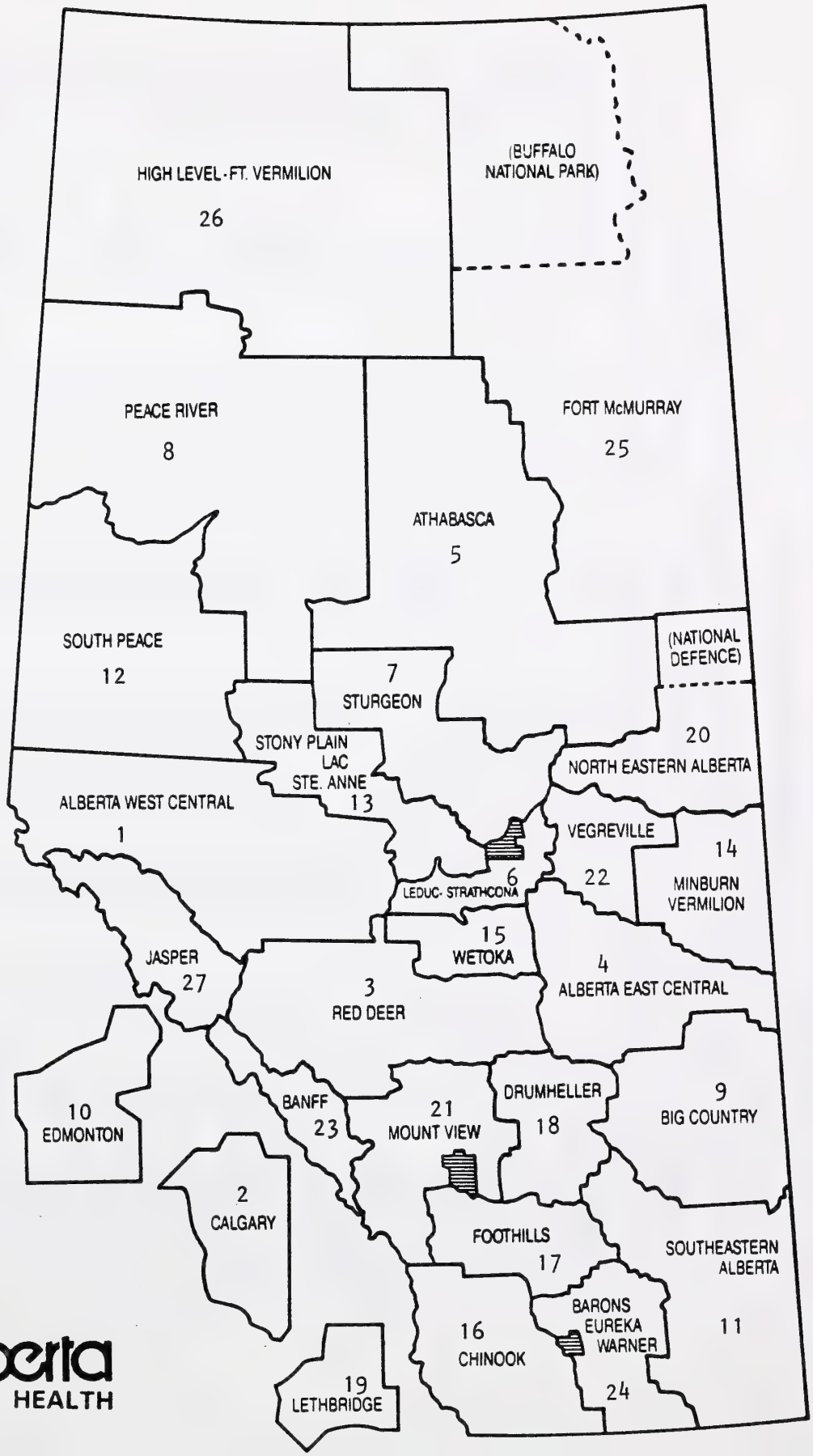
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	374
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	388	193
ATHABASCA	0	0	0	0	0	0	0	98	0	186
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	205	0
CALGARY	0	0	0	2	0	2	3	20	103	278
CHINOOK	0	0	0	0	0	0	0	0	0	229
DRUMHELLER	0	0	0	0	0	0	0	0	0	212
EDMONTON	0	0	0	2	0	0	3	20	59	156
FOOTHILLS	0	0	0	0	0	0	0	0	0	223
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	11	0	0	0	102	157
LETHBRIDGE	0	0	0	0	0	0	0	0	36	167
MINBURN-VERMILION	0	0	0	0	0	0	0	0	67	162
MOUNT VIEW	0	0	0	0	0	0	0	0	118	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	207
PEACE RIVER	0	0	0	0	0	0	0	0	109	157
RED DEER REGIONAL	0	0	0	0	0	11	0	46	137	79
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	30	33	187
SOUTH PEACE	0	0	0	0	0	0	0	0	67	175
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	104	76	0
STURGEON	0	0	0	0	0	0	21	34	0	239
VEGREVILLE	0	0	0	0	0	0	0	0	63	76
WETOKA	0	0	0	0	0	0	0	0	65	176
ALBERTA	0	0	0	1	0	1	3	19	69	190

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	16	5	28	4	1.14	.
ALBERTA WEST CENTRAL	31	1	62	1	2.21	.
ATHABASCA	15	-6	37	5	1.07	.
BANFF NATIONAL PARK	0	0	0	23	0.00	.
BARONS-EUREKA-WARNER	0	0	0	24	0.00	.
BIG COUNTRY	12	-12	35	9	0.86	.
CALGARY	21	15	26	2	1.50	YES
CHINOOK	10	-1	21	16	0.71	.
DRUMHELLER	9	-4	22	18	0.64	.
EDMONTON	12	9	16	10	0.86	.
FOOTHILLS	10	-4	23	17	0.71	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	15	2	28	6	1.07	.
LETHBRIDGE	9	1	18	19	0.64	.
MINBURN-VERMILION	11	-1	23	14	0.79	.
MOUNT VIEW	7	-3	16	21	0.50	.
NORTH EASTERN ALBERTA	9	-3	22	20	0.64	.
PEACE RIVER	13	-5	32	8	0.93	.
RED DEER REGIONAL	17	6	27	3	1.21	.
SOUTHEASTERN ALBERTA	12	2	22	11	0.86	.
SOUTH PEACE	12	-2	25	12	0.86	.
STONY PLAIN-LAC STE. ANNE	12	-2	26	13	0.86	.
STURGEON	15	3	27	7	1.07	.
VEGREVILLE	7	-3	17	22	0.50	.
WETOKA	11	-2	24	15	0.79	.
ALBERTA	14	12	16			

HEALTH UNITS OF ALBERTA



Alberta
HEALTH

NUMBER OF FEMALE DEATHS, 1990

LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	0	0	0	0	1
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	1	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	2	3	2	1	4	5	17
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	1	0	0	1
EDMONTON	0	0	0	0	1	5	1	4	3	3	17
FOOTHILLS	0	0	0	0	1	0	0	0	0	0	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	1	0	0	0	0	1
LETHBRIDGE	0	0	0	0	0	0	1	0	0	1	2
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	0	0	2	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	1	2	1	0	4
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	1	0	0	2
SOUTH PEACE	0	0	0	0	0	0	1	0	0	1	2
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	1	0	2
STURGEON	0	0	0	0	0	1	0	0	0	0	1
VEGREVILLE	0	0	0	0	0	0	0	0	1	0	1
WETOKA	0	0	0	0	0	1	0	0	0	0	1
ALBERTA	0	0	0	0	4	12	7	10	10	13	56

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

LIVER CIRRHOSIS

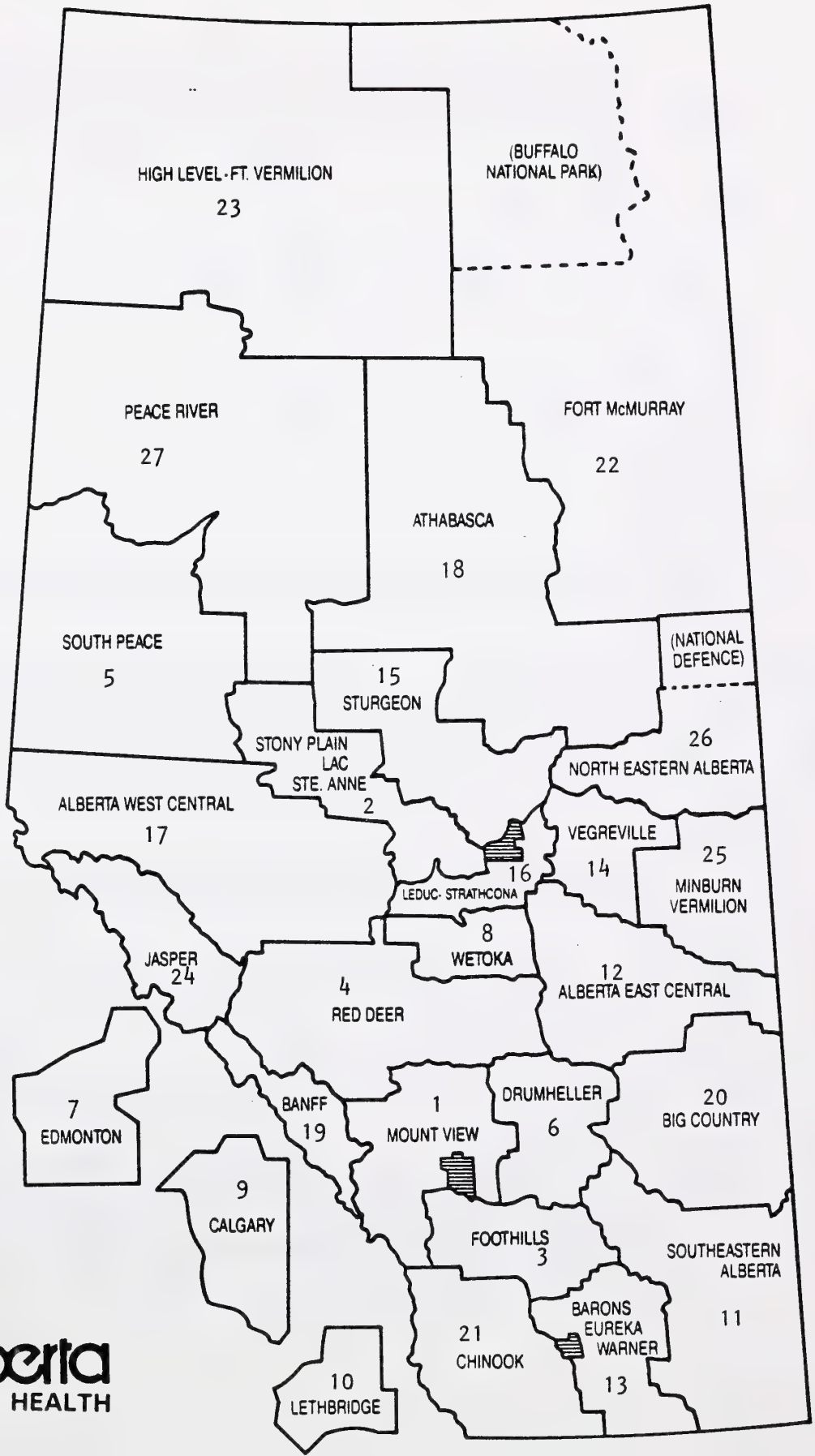
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	26	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	97
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	3	5	6	4	23	38
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	75	0	0
EDMONTON	0	0	0	0	2	12	3	16	16	21
FOOTHILLS	0	0	0	0	37	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	9	0	0	0	0
LETHBRIDGE	0	0	0	0	0	0	33	0	0	42
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	0	0	186
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	18	46	27	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	30	0	0
SOUTH PEACE	0	0	0	0	0	0	37	0	0	87
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	52	76	0
STURGEON	0	0	0	0	0	11	0	0	0	0
VEGREVILLE	0	0	0	0	0	0	0	0	63	0
WETOKA	0	0	0	0	0	37	0	0	0	0
ALBERTA	0	0	0	0	2	6	6	11	14	24

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

LIVER CIRRHOSIS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	4	-4	12	12	0.80	.
ALBERTA WEST CENTRAL	0	0	0	17	0.00	.
ATHABASCA	0	0	0	18	0.00	.
BANFF NATIONAL PARK	0	0	0	19	0.00	.
BARONS-EUREKA-WARNER	4	-4	12	13	0.80	.
BIG COUNTRY	0	0	0	20	0.00	.
CALGARY	5	3	8	9	1.00	.
CHINOOK	0	0	0	21	0.00	.
DRUMHELLER	6	-5	16	6	1.20	.
EDMONTON	6	3	8	7	1.20	.
FOOTHILLS	7	-7	21	3	1.40	.
FORT MCMURRAY	0	0	0	22	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	23	0.00	.
JASPER NATIONAL PARK	0	0	0	24	0.00	.
LEDUC-STRATHCONA	1	-1	4	16	0.20	.
LETHBRIDGE	5	-2	12	10	1.00	.
MINBURN-VERMILION	0	0	0	25	0.00	.
MOUNT VIEW	8	-3	19	1	1.60	.
NORTH EASTERN ALBERTA	0	0	0	26	0.00	.
PEACE RIVER	0	0	0	27	0.00	.
RED DEER REGIONAL	7	0	13	4	1.40	.
SOUTHEASTERN ALBERTA	5	-2	12	11	1.00	.
SOUTH PEACE	7	-3	17	5	1.40	.
STONY PLAIN-LAC STE. ANNE	8	-3	20	2	1.60	.
STURGEON	2	-2	5	15	0.40	.
VEGREVILLE	4	-4	11	14	0.80	.
WETOKA	6	-6	17	8	1.20	.
ALBERTA	5	3	6			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

LIVER CIRRHOSIS, FEMALES, 1990

4.42

NUMBER OF FEMALE DEATHS, 1990

CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	1	1	0	0	0	0	0	0	0	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	2	0	0	0	0	0	0	0	0	0	2
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	12	1	1	0	1	0	0	0	1	0	16
CHINOOK	1	0	0	0	0	0	0	0	0	1	2
DRUMHELLER	1	0	0	0	0	0	0	0	0	0	1
EDMONTON	13	2	3	1	2	0	0	0	1	0	22
FOOTHILLS	0	0	0	0	0	0	0	0	0	1	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	1	0	0	0	0	0	0	0	1	2
LETHBRIDGE	1	0	0	0	0	0	0	0	0	0	1
MINBURN-VERMILION	1	0	0	0	0	0	0	0	0	0	1
MOUNT VIEW	2	0	0	0	0	0	0	0	0	0	2
NORTH EASTERN ALBERTA	2	0	0	0	0	0	0	0	0	0	2
PEACE RIVER	1	0	0	0	0	0	0	0	0	0	1
RED DEER REGIONAL	2	0	0	0	0	0	0	0	0	0	2
SOUTHEASTERN ALBERTA	3	1	0	0	0	0	0	0	0	0	4
SOUTH PEACE	3	0	0	0	0	0	0	0	0	0	3
STONY PLAIN-LAC STE. ANNE	2	0	0	0	0	0	0	0	0	1	3
STURGEON	1	1	0	0	0	0	0	0	0	0	2
VEGREVILLE	1	0	0	0	0	0	0	0	0	0	1
WETOKA	0	0	0	0	0	0	0	0	0	0	0
ALBERTA	49	7	4	1	3	0	0	0	2	4	70

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

CONGENITAL ANOMALY

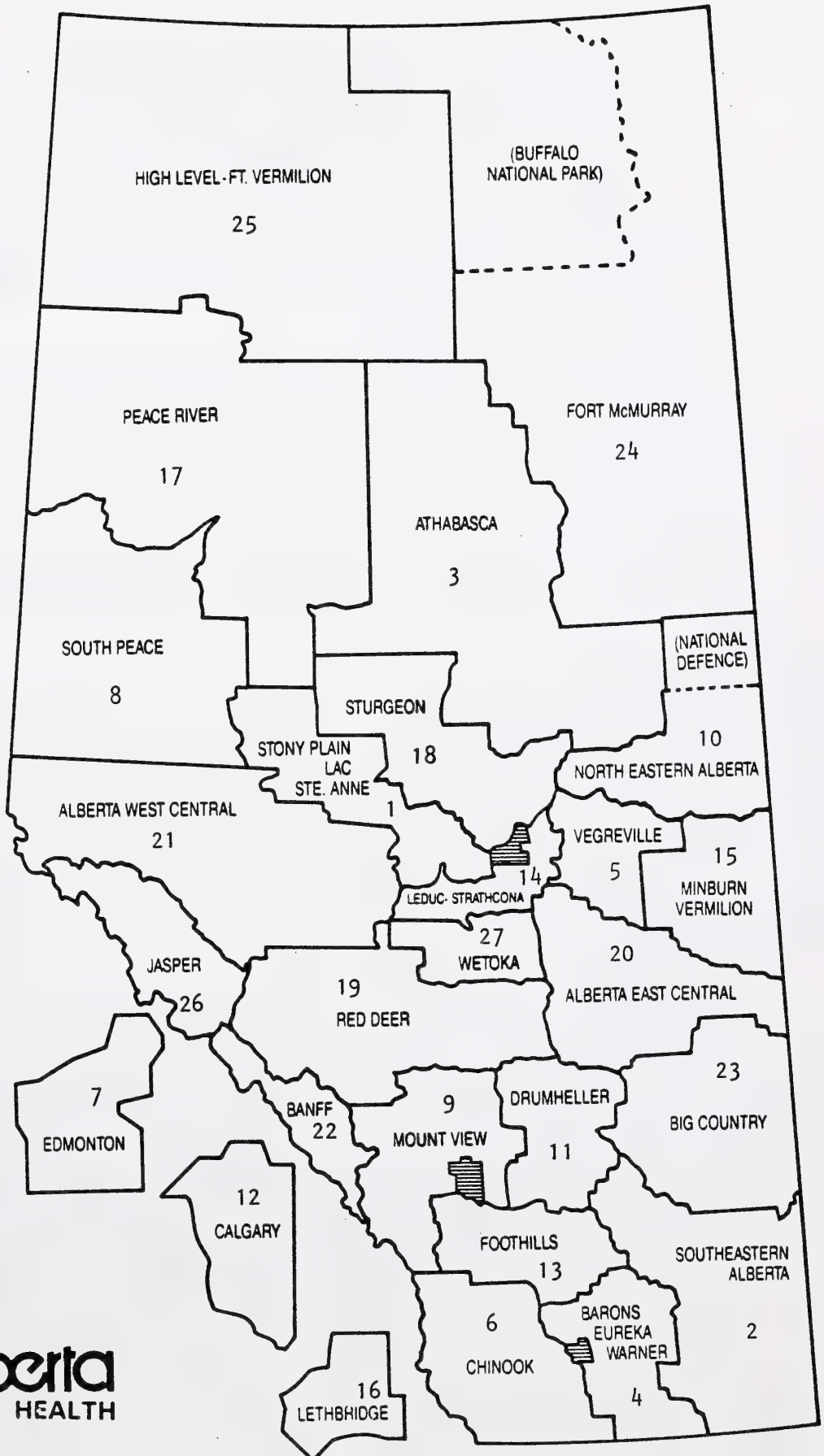
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	262	81	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	533	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	208	5	2	0	1	0	0	0	6	0
CHINOOK	253	0	0	0	0	0	0	0	0	76
DRUMHELLER	316	0	0	0	0	0	0	0	0	0
EDMONTON	244	11	8	2	3	0	0	0	5	0
FOOTHILLS	0	0	0	0	0	0	0	0	0	111
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	29	0	0	0	0	0	0	0	79
LETHBRIDGE	213	0	0	0	0	0	0	0	0	0
MINBURN-VERMILION	275	0	0	0	0	0	0	0	0	0
MOUNT VIEW	378	0	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	402	0	0	0	0	0	0	0	0	0
PEACE RIVER	248	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	171	0	0	0	0	0	0	0	0	0
SOUTHEASTERN ALBERTA	474	39	0	0	0	0	0	0	0	0
SOUTH PEACE	451	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	326	0	0	0	0	0	0	0	0	148
STURGEON	120	30	0	0	0	0	0	0	0	0
VEGREVILLE	546	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	0	0	0	0
ALBERTA	223	9	2	1	1	0	0	0	3	7

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

CONGENITAL ANOMALY

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	0	0	0	20	0.00	.
ALBERTA WEST CENTRAL	0	0	0	21	0.00	.
ATHABASCA	10	-4	24	3	1.67	.
BANFF NATIONAL PARK	0	0	0	22	0.00	.
BARONS-EUREKA-WARNER	10	-4	23	4	1.67	.
BIG COUNTRY	0	0	0	23	0.00	.
CALGARY	5	3	7	12	0.83	.
CHINOOK	8	-3	19	6	1.33	.
DRUMHELLER	6	-5	17	11	1.00	.
EDMONTON	8	4	11	7	1.33	.
FOOTHILLS	5	-5	14	13	0.83	.
FORT MCMURRAY	0	0	0	24	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.00	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	5	-2	13	14	0.83	.
LETHBRIDGE	4	-4	11	16	0.67	.
MINBURN-VERMILION	5	-5	15	15	0.83	.
MOUNT VIEW	7	-3	16	9	1.17	.
NORTH EASTERN ALBERTA	7	-3	17	10	1.17	.
PEACE RIVER	4	-4	13	17	0.67	.
RED DEER REGIONAL	3	-1	7	19	0.50	.
SOUTHEASTERN ALBERTA	11	0	22	2	1.83	.
SOUTH PEACE	8	-1	17	8	1.33	.
STONY PLAIN-LAC STE. ANNE	12	-3	27	1	2.00	.
STURGEON	4	-2	10	18	0.67	.
VEGREVILLE	10	-9	29	5	1.67	.
WETOKA	0	0	0	27	0.00	.
ALBERTA	6	4	7			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

CONGENITAL ANOMALY, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	0	1	1	0	0	0	3
ALBERTA WEST CENTRAL	0	0	0	0	1	0	0	0	0	1	2
ATHABASCA	0	0	0	2	3	0	0	1	0	1	7
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	1	0	0	0	0	0	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	4	5	0	0	4	0	1	14
CHINOOK	0	0	1	0	1	0	0	0	0	0	2
DRUMHELLER	0	0	1	1	0	0	0	0	1	0	3
EDMONTON	0	0	0	2	7	5	2	3	2	1	22
FOOTHILLS	0	0	0	0	0	1	0	0	1	2	4
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	4	1	0	0	0	0	1	6
LETHBRIDGE	0	0	0	1	0	0	0	0	0	0	1
MINBURN-VERMILION	0	0	0	0	0	1	0	0	1	2	4
MOUNT VIEW	0	0	0	2	0	1	0	2	2	1	8
NORTH EASTERN ALBERTA	0	0	0	0	3	0	0	0	0	0	3
PEACE RIVER	0	0	1	2	0	0	0	0	0	0	3
RED DEER REGIONAL	0	0	0	1	1	1	2	0	0	1	6
SOUTHEASTERN ALBERTA	0	0	1	1	0	0	1	1	0	2	6
SOUTH PEACE	0	0	0	0	1	2	0	0	0	1	4
STONY PLAIN-LAC STE. ANNE	0	0	2	3	1	1	0	0	0	0	7
STURGEON	0	0	0	0	0	1	0	0	0	0	1
VEGREVILLE	0	0	0	0	0	1	1	0	1	0	3
WETOKA	0	1	0	0	0	0	1	0	0	0	2
ALBERTA	0	1	6	25	24	15	8	11	8	14	112

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

MOTOR VEHICLE ACCIDENTS

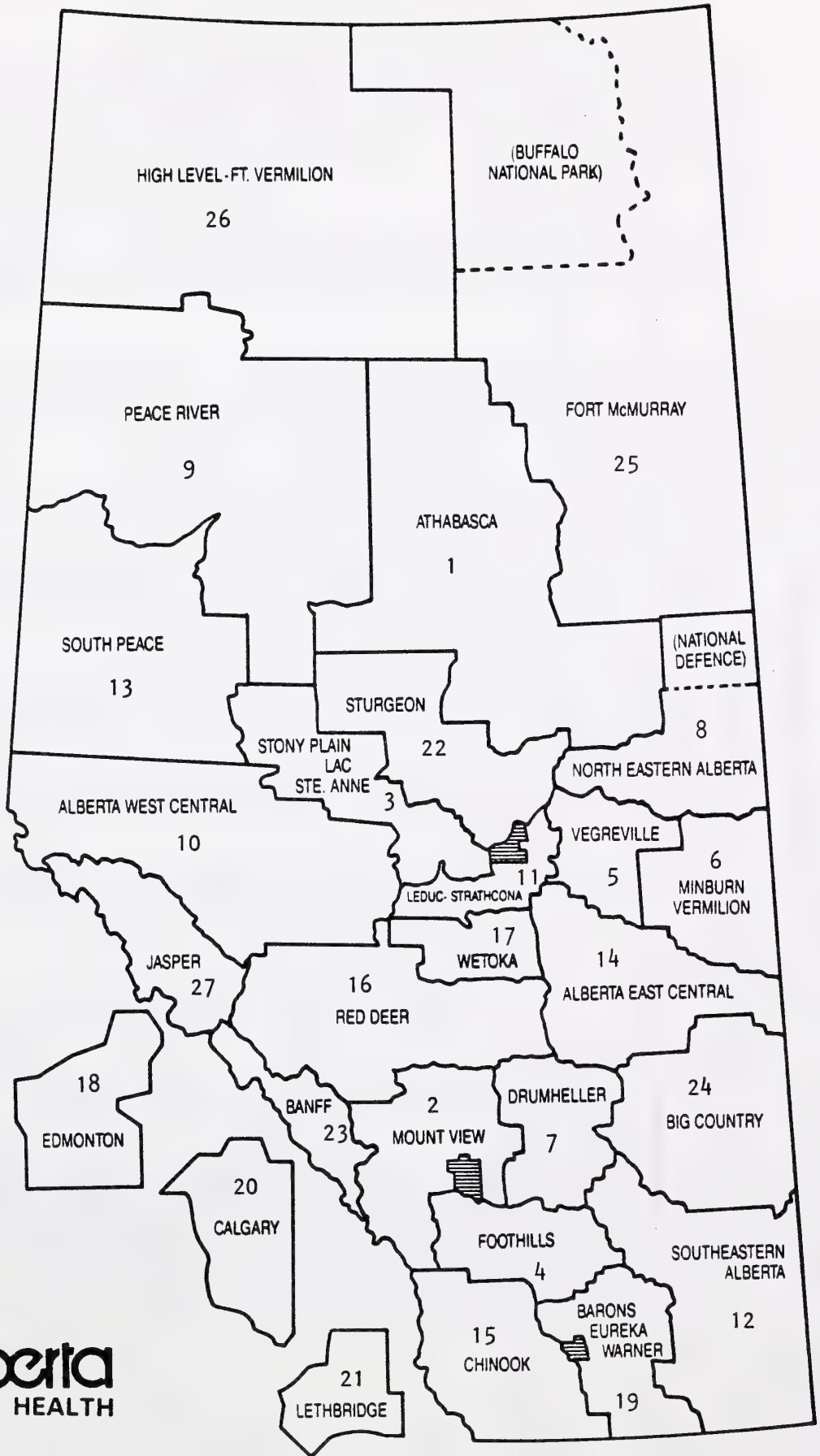
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	28	0	26	37	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	27	0	0	0	0	193
ATHABASCA	0	0	0	81	123	0	0	98	0	186
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	35	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	8	7	0	0	16	0	8
CHINOOK	0	0	28	0	34	0	0	0	0	0
DRUMHELLER	0	0	36	43	0	0	0	0	75	0
EDMONTON	0	0	0	4	11	12	7	12	11	7
FOOTHILLS	0	0	0	0	0	34	0	0	75	223
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	55	11	0	0	0	0	79
LETHBRIDGE	0	0	0	22	0	0	0	0	0	0
MINBURN-VERMILION	0	0	0	0	0	36	0	0	67	162
MOUNT VIEW	0	0	0	53	0	19	0	96	118	93
NORTH EASTERN ALBERTA	0	0	0	0	76	0	0	0	0	0
PEACE RIVER	0	0	28	71	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	11	9	11	35	0	0	39
SOUTHEASTERN ALBERTA	0	0	17	18	0	0	28	30	0	94
SOUTH PEACE	0	0	0	0	16	43	0	0	0	87
STONY PLAIN-LAC STE. ANNE	0	0	31	71	16	17	0	0	0	0
STURGEON	0	0	0	0	0	11	0	0	0	0
VEGREVILLE	0	0	0	0	0	49	66	0	63	0
WETOKA	0	81	0	0	0	0	51	0	0	0
ALBERTA	0	1	3	14	10	8	7	12	11	26

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	12	-2	25	14	1.33	.
ALBERTA WEST CENTRAL	14	-6	33	10	1.56	.
ATHABASCA	51	13	89	1	5.67	YES
BANFF NATIONAL PARK	0	0	0	23	0.00	.
BARONS-EUREKA-WARNER	5	-5	16	19	0.56	.
BIG COUNTRY	0	0	0	24	0.00	.
CALGARY	4	2	6	20	0.44	.
CHINOOK	11	-4	26	15	1.22	.
DRUMHELLER	16	-2	35	7	1.78	.
EDMONTON	7	4	10	18	0.78	.
FOOTHILLS	19	0	39	4	2.11	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	14	2	25	11	1.56	.
LETHBRIDGE	3	-3	10	21	0.33	.
MINBURN-VERMILION	17	0	33	6	1.89	.
MOUNT VIEW	29	9	49	2	3.22	YES
NORTH EASTERN ALBERTA	15	-2	31	8	1.67	.
PEACE RIVER	15	-2	31	9	1.67	.
RED DEER REGIONAL	10	2	18	16	1.11	.
SOUTHEASTERN ALBERTA	14	3	26	12	1.56	.
SOUTH PEACE	14	0	27	13	1.56	.
STONY PLAIN-LAC STE. ANNE	21	5	37	3	2.33	.
STURGEON	2	-2	5	22	0.22	.
VEGREVILLE	18	-3	38	5	2.00	.
WETOKA	10	-4	24	17	1.11	.
ALBERTA	9	7	11			

HEALTH UNITS OF ALBERTA



Alberta
HEALTH

MOTOR VEHICLE ACCIDENTS, FEMALES, 1990

NUMBER OF FEMALE DEATHS, 1990

SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	1	1
ALBERTA WEST CENTRAL	0	0	0	1	1	0	0	0	0	0	2
ATHABASCA	0	0	0	1	0	0	0	0	0	0	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	1	5	3	3	3	0	0	1	16
CHINOOK	0	0	0	1	1	0	0	0	0	0	2
DRUMHELLER	0	0	0	0	0	1	0	0	0	0	1
EDMONTON	0	0	0	6	16	12	2	3	3	0	42
FOOTHILLS	0	0	0	0	0	0	1	0	1	0	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	2	0	0	0	0	2
LETHBRIDGE	0	0	0	1	1	2	0	0	0	0	4
MINBURN-VERMILION	0	0	0	0	0	1	0	1	0	0	2
MOUNT VIEW	0	0	0	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	1	0	0	0	0	1
PEACE RIVER	0	0	0	1	0	0	0	0	0	0	1
RED DEER REGIONAL	0	0	0	0	0	0	0	0	0	0	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	1	0	0	2
SOUTH PEACE	0	0	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	1	0	0	0	0	1
STURGEON	0	0	0	0	0	1	1	0	0	0	2
VEGREVILLE	0	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	0	0	0	0	0
ALBERTA	0	0	1	16	22	24	8	5	4	2	82

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

SUICIDE

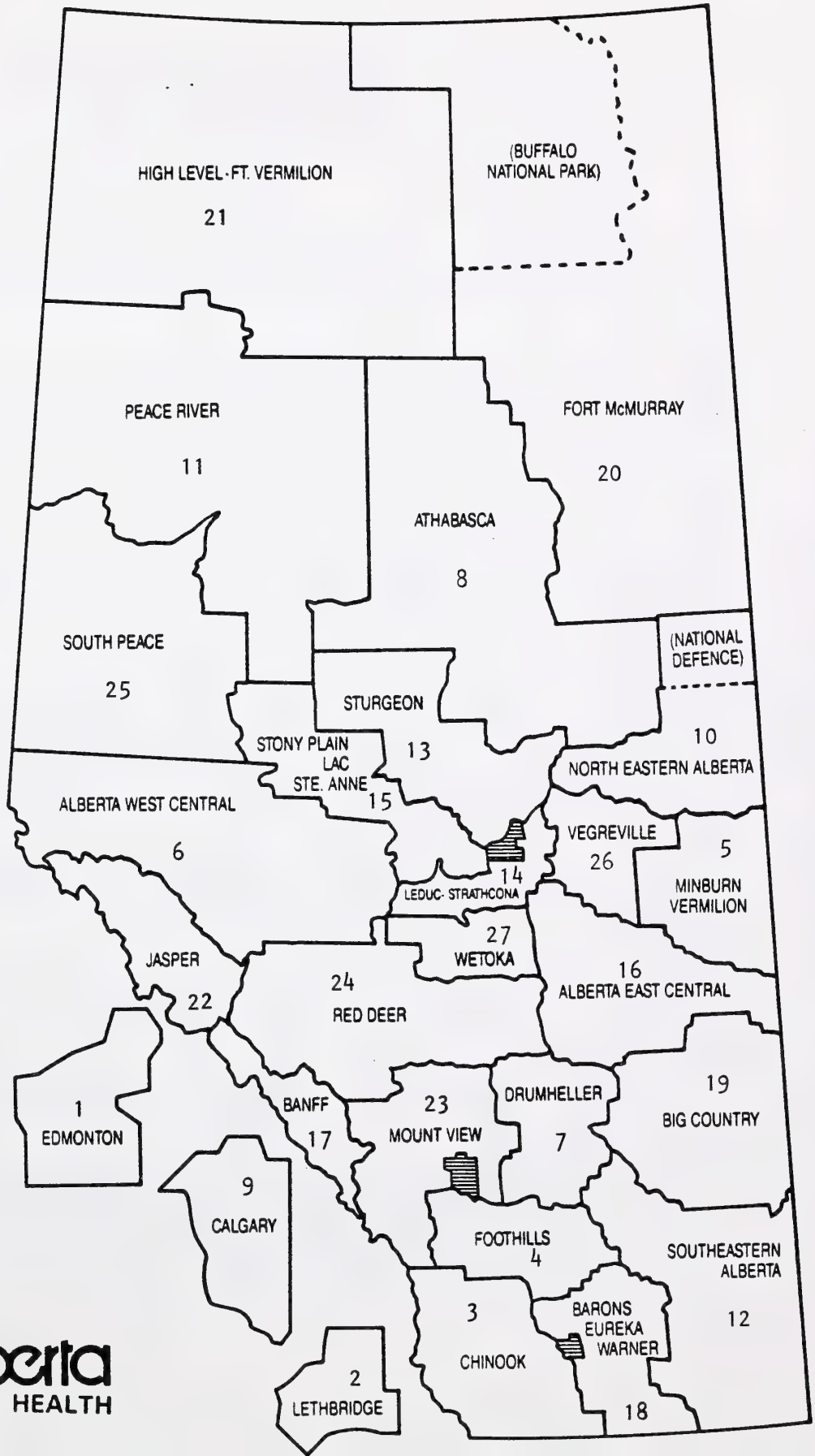
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	47
ALBERTA WEST CENTRAL	0	0	0	34	27	0	0	0	0	0
ATHABASCA	0	0	0	41	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	2	10	4	5	9	0	0	8
CHINOOK	0	0	0	36	34	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	43	0	0	0	0
EDMONTON	0	0	0	12	26	28	7	12	16	0
FOOTHILLS	0	0	0	0	0	0	65	0	75	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	18	0	0	0	0
LETHBRIDGE	0	0	0	22	18	44	0	0	0	0
MINBURN-VERMILION	0	0	0	0	0	36	0	69	0	0
MOUNT VIEW	0	0	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	31	0	0	0	0
PEACE RIVER	0	0	0	35	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	0	0	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	30	0	0
SOUTH PEACE	0	0	0	0	0	0	0	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	17	0	0	0	0
STURGEON	0	0	0	0	0	11	21	0	0	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	0	0	0	0	0
ALBERTA	0	0	1	9	9	13	7	5	6	4

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

SUICIDE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	2	-2	6	16	0.29	.
ALBERTA WEST CENTRAL	10	-4	24	6	1.43	.
ATHABASCA	6	-6	18	8	0.86	.
BANFF NATIONAL PARK	0	0	0	17	0.00	.
BARONS-EUREKA-WARNER	0	0	0	18	0.00	.
BIG COUNTRY	0	0	0	19	0.00	.
CALGARY	5	2	7	9	0.71	.
CHINOOK	12	-5	28	3	1.71	.
DRUMHELLER	7	-6	20	7	1.00	.
EDMONTON	14	10	18	1	2.00	YES
FOOTHILLS	11	-4	25	4	1.57	.
FORT MCMURRAY	0	0	0	20	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	21	0.00	.
JASPER NATIONAL PARK	0	0	0	22	0.00	.
LEDUC-STRATHCONA	3	-1	7	14	0.43	.
LETHBRIDGE	14	0	27	2	2.00	.
MINBURN-VERMILION	11	-4	26	5	1.57	.
MOUNT VIEW	0	0	0	23	0.00	.
NORTH EASTERN ALBERTA	5	-5	14	10	0.71	.
PEACE RIVER	5	-5	16	11	0.71	.
RED DEER REGIONAL	0	0	0	24	0.00	.
SOUTHEASTERN ALBERTA	5	-2	12	12	0.71	.
SOUTH PEACE	0	0	0	25	0.00	.
STONY PLAIN-LAC STE. ANNE	3	-3	8	15	0.43	.
STURGEON	4	-1	9	13	0.57	.
VEGREVILLE	0	0	0	26	0.00	.
WETOKA	0	0	0	27	0.00	.
ALBERTA	7	5	8			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

SUICIDE, FEMALES, 1990

4.54

NUMBER OF FEMALE DEATHS, 1990

BREAST CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	4	5	9
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	2	0	2	4
ATHABASCA	0	0	0	0	0	1	0	0	0	3	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	1	2	4	1	8
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	13	18	34	20	17	102
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	1	1	0	1	3
EDMONTON	0	0	0	0	1	5	11	16	19	24	76
FOOTHILLS	0	0	0	0	0	0	0	0	2	2	4
FORT MCMURRAY	0	0	0	0	0	2	0	1	0	0	3
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	2	2	3	1	1	9
LETHBRIDGE	0	0	0	0	0	1	0	0	3	1	5
MINBURN-VERMILION	0	0	0	0	0	1	1	0	1	1	4
MOUNT VIEW	0	0	0	0	0	1	1	3	5	2	12
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	2	1	2	5
PEACE RIVER	0	0	0	0	0	1	0	1	1	2	5
RED DEER REGIONAL	0	0	0	0	0	3	0	4	1	3	11
SOUTHEASTERN ALBERTA	0	0	0	0	1	0	1	0	2	3	7
SOUTH PEACE	0	0	0	0	0	0	1	1	1	2	5
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	3	2	0	1	1	7
STURGEON	0	0	0	0	1	3	1	3	3	4	15
VEGREVILLE	0	0	0	0	0	0	0	1	2	0	3
WETOKA	0	0	0	0	1	1	2	1	4	5	14
ALBERTA	0	0	0	0	4	37	42	75	75	82	315

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1990

BREAST CANCER

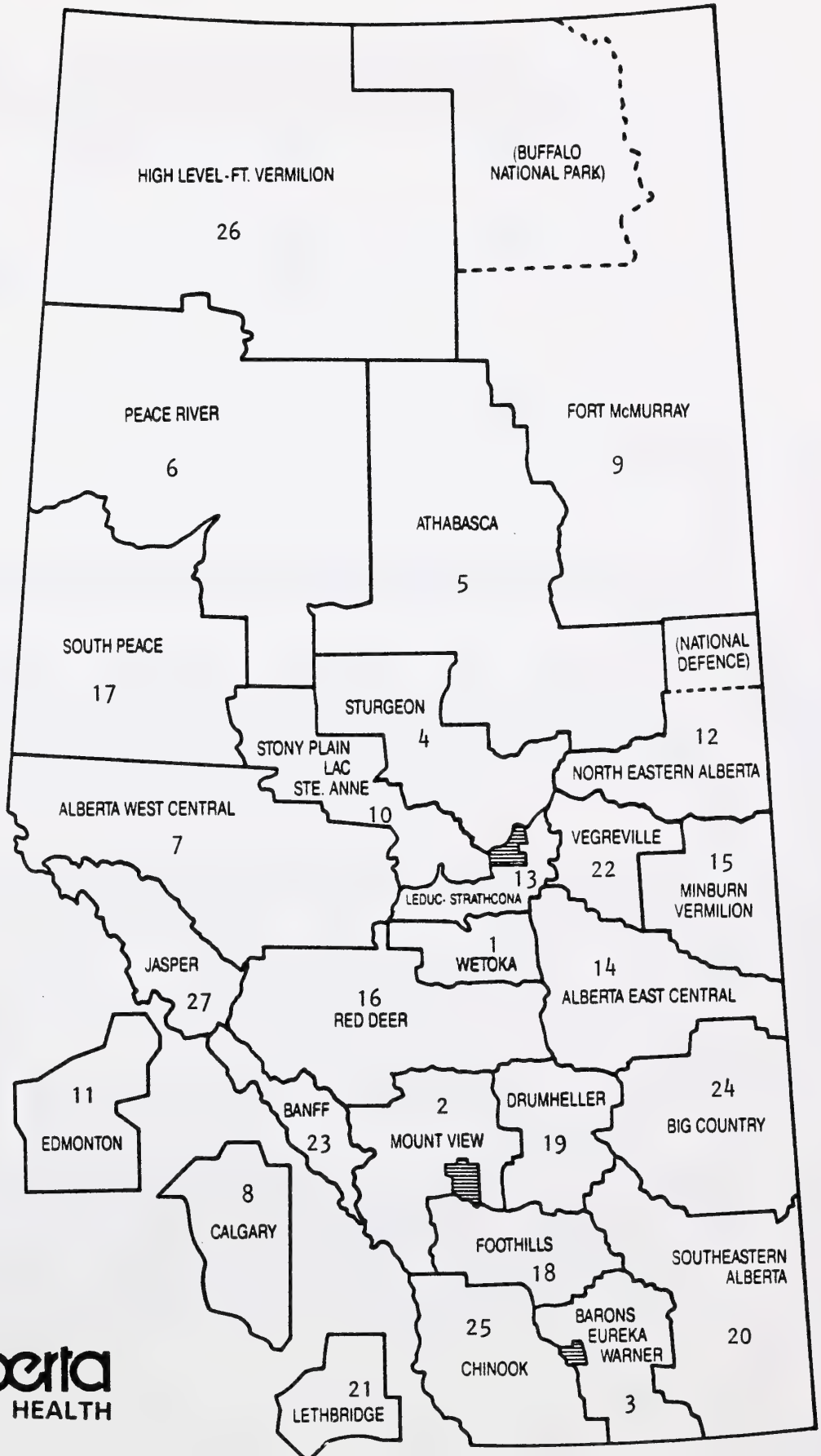
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	145	234
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	187	0	386
ATHABASCA	0	0	0	0	0	46	0	0	0	559
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	54	125	306	97
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	24	55	137	114	128
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	66	75	0	106
EDMONTON	0	0	0	0	2	12	37	65	102	170
FOOTHILLS	0	0	0	0	0	0	0	0	150	223
FORT MCMURRAY	0	0	0	0	0	61	0	251	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	18	38	103	51	79
LETHBRIDGE	0	0	0	0	0	22	0	0	108	42
MINBURN-VERMILION	0	0	0	0	0	36	59	0	67	81
MOUNT VIEW	0	0	0	0	0	19	33	144	294	186
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	135	83	207
PEACE RIVER	0	0	0	0	0	38	0	81	109	313
RED DEER REGIONAL	0	0	0	0	0	33	0	92	27	118
SOUTHEASTERN ALBERTA	0	0	0	0	15	0	28	0	65	140
SOUTH PEACE	0	0	0	0	0	0	37	50	67	175
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	51	68	0	76	148
STURGEON	0	0	0	0	12	34	21	102	143	239
VEGREVILLE	0	0	0	0	0	0	0	66	127	0
WETOKA	0	0	0	0	34	37	102	56	259	439
ALBERTA	0	0	0	0	2	19	36	82	104	153

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1990

BREAST CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	19	6	31	14	0.73	.
ALBERTA WEST CENTRAL	31	0	61	7	1.19	.
ATHABASCA	32	1	63	5	1.23	.
BANFF NATIONAL PARK	0	0	0	23	0.00	.
BARONS-EUREKA-WARNER	37	11	62	3	1.42	.
BIG COUNTRY	0	0	0	24	0.00	.
CALGARY	31	25	38	8	1.19	YES
CHINOOK	0	0	0	25	0.00	.
DRUMHELLER	17	-2	35	19	0.65	.
EDMONTON	24	18	29	11	0.92	.
FOOTHILLS	18	0	37	18	0.69	.
FORT MCMURRAY	28	-11	67	9	1.08	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	21	7	35	13	0.81	.
LETHBRIDGE	12	1	22	21	0.46	.
MINBURN-VERMILION	19	0	37	15	0.73	.
MOUNT VIEW	42	18	66	2	1.62	.
NORTH EASTERN ALBERTA	24	3	45	12	0.92	.
PEACE RIVER	32	4	60	6	1.23	.
RED DEER REGIONAL	19	8	30	16	0.73	.
SOUTHEASTERN ALBERTA	16	4	27	20	0.62	.
SOUTH PEACE	19	2	35	17	0.73	.
STONY PLAIN-LAC STE. ANNE	25	5	45	10	0.96	.
STURGEON	36	18	54	4	1.38	.
VEGREVILLE	12	-2	26	22	0.46	.
WETOKA	61	28	93	1	2.35	YES
ALBERTA	26	23	28			

HEALTH UNITS OF ALBERTA



Alberta HEALTH

BREAST CANCER, FEMALES, 1990

POTENTIAL YEARS OF LIFE LOST FROM SELECTED CAUSES: FEMALE, 1990

REGION	HEALTH UNIT	ALL CAUSES		ISCHEMIC HEART DISEASE		MOTOR VEHICLE ACCIDENTS		CEREBRO-VASCULAR DISEASE		LUNG CANCER		CHRONIC OBSTRUCTIVE LUNG DISEASE		BREAST CANCER		COLON CANCER		SUICIDE		ALL OTHER CAUSES	
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
*																					
N	ATHABASCA	1058	100	19	1.8	230	21.7	51	4.8	11	1.0	10	0.9	30	2.8	1	0.1	50	4.7	656	62.0
N	FORT MCMURRAY	338	100	40	11.8	0	0.0	30	8.9	0	0.0	0	0.0	70	20.7	0	0.0	0	0.0	198	58.6
N	HIGH LEVEL-FORT VERMILION	467	100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	467	100.0
N	PEACE RIVER	849	100	39	4.6	160	18.8	1	0.1	11	1.3	1	0.1	41	4.8	10	1.2	50	5.9	536	63.1
N	SOUTH PEACE	1076	100	103	9.6	100	9.3	0	0.0	40	3.7	1	0.1	31	2.9	1	0.1	0	0.0	800	74.3
	NORTH REGION SUM:	3788	100	201	5.3	490	12.9	82	2.2	62	1.6	12	0.3	172	4.5	12	0.3	100	2.6	2657	70.1
NC	ALBERTA WEST CENTRAL	624	100	56	9.0	40	6.4	11	1.8	41	6.6	4	0.6	20	3.2	30	4.8	90	14.4	332	53.2
NC	JASPER NATIONAL PARK	35	100	3	8.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	32	91.4
NC	LEDUC-STRATHCONA	1397	100	58	4.2	240	17.2	0	0.0	61	4.4	43	3.1	131	9.4	40	2.9	60	4.3	764	54.7
NC	MINBURN-VERMILION	357	100	8	2.2	31	8.7	1	0.3	30	8.4	1	0.3	51	14.3	0	0.0	40	11.2	195	54.6
NC	NORTH EASTERN ALBERTA	639	100	18	2.8	120	18.8	41	6.4	6	0.9	0	0.0	21	3.3	1	0.2	30	4.7	402	62.9
NC	STONY PLAIN-LAC STE. ANNE	1077	100	68	6.3	340	31.6	0	0.0	90	8.4	21	1.9	131	12.2	1	0.1	30	2.8	396	36.8
NC	STURGEON	1586	100	101	6.4	30	1.9	80	5.0	114	7.2	30	1.9	184	11.6	53	3.3	50	3.2	944	59.5
NC	VEGREVILLE	345	100	3	0.9	51	14.8	4	1.2	1	0.3	1	0.3	13	3.8	10	2.9	0	0.0	262	75.9
	NORTH CENTRAL SUM:	6060	100	315	5.2	852	14.1	137	2.3	343	5.7	100	1.7	551	9.1	135	2.2	300	5.0	3327	54.9
EDMONTON BOARD OF HEALTH		11760	100	433	3.7	603	5.1	138	1.2	404	3.4	134	1.1	594	5.1	171	1.5	1374	11.7	7909	67.3
CALGARY BOARD OF HEALTH		10274	100	489	4.8	440	4.3	334	3.3	415	4.0	173	1.7	1115	10.9	174	1.7	580	5.6	6554	63.8
SC	ALBERTA EAST CENTRAL	555	100	36	6.5	100	18.0	10	1.8	53	9.5	0	0.0	5	0.9	0	0.0	0	0.0	351	63.2
SC	BANFF NATIONAL PARK	140	100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	140	100.0
SC	BIG COUNTRY	36	100	1	2.8	0	0.0	1	2.8	10	27.8	1	2.8	0	0.0	0	0.0	0	0.0	23	63.9
SC	DRUMHELLER	592	100	44	7.4	111	18.8	0	0.0	51	8.6	0	0.0	30	5.1	31	5.2	30	5.1	295	49.8
SC	MOUNT VIEW	993	100	33	3.3	153	15.4	0	0.0	13	1.3	3	0.3	86	8.7	25	2.5	0	0.0	680	68.5
SC	RED DEER REGIONAL	2154	100	95	4.4	160	7.4	64	3.0	65	3.0	56	2.6	131	6.1	98	4.5	0	0.0	1485	68.9
SC	WETOKA	868	100	45	5.2	87	10.0	11	1.3	13	1.5	1	0.1	125	14.4	1	0.1	0	0.0	585	67.4
	SOUTH CENTRAL SUM:	5338	100	254	4.8	611	11.4	86	1.6	205	3.8	61	1.1	377	7.1	155	2.9	30	0.6	3559	66.7
S	BARONS-EUREKA-WARNER	571	100	16	2.8	50	8.8	11	1.9	3	0.5	0	0.0	45	7.9	1	0.2	0	0.0	445	77.9
S	CHINOOK	593	100	39	6.6	100	16.9	4	0.7	20	3.4	0	0.0	0	0.0	1	0.2	90	15.2	339	57.2
S	FOOTHILLS	334	100	5	1.5	31	9.3	3	0.9	10	3.0	0	0.0	3	0.9	11	3.3	21	6.3	250	74.9
S	LETHBRIDGE	967	100	39	4.0	50	5.2	81	8.4	15	1.6	1	0.1	34	3.5	30	3.1	150	15.5	567	58.6
S	SOUTHEASTERN ALBERTA	1358	100	56	4.1	140	10.3	103	7.6	25	1.8	11	0.8	63	4.6	21	1.5	30	2.2	909	66.9
	SOUTH REGION SUM:	3823	100	155	4.1	371	9.7	202	5.3	73	1.9	12	0.3	145	3.8	64	1.7	291	7.6	2510	65.7
	HEALTH UNIT TOTAL	41041	100	1843	4.5	3367	8.2	979	2.4	1501	3.7	493	1.2	2954	7.2	713	1.7	2675	6.5	26516	64.6

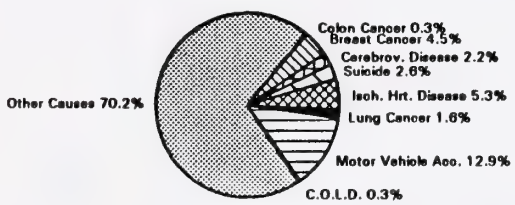
* N = NORTH REGION, NC = NORTH CENTRAL REGION, SC = SOUTH CENTRAL REGION, and S = SOUTH REGION

NOTE: Data and percentages may not add-up to totals due to rounding.

POTENTIAL YEARS OF LIFE LOST (PYLL) BY REGION
FEMALE, 1990

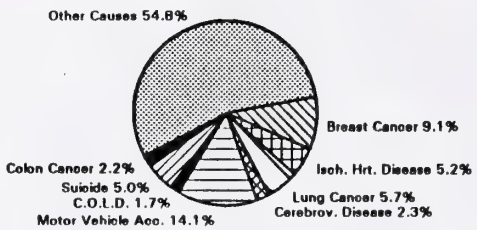
Percentage Distribution by Selected Preventable Causes

NORTH REGION



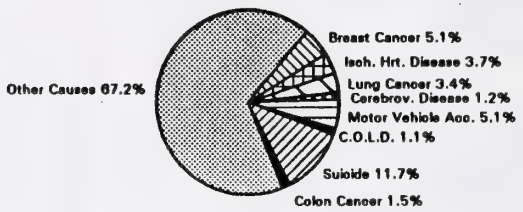
PYLL = 3,788 YEARS

NORTH CENTRAL REGION



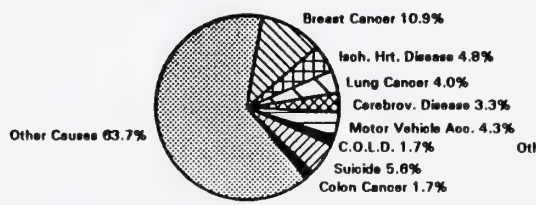
PYLL = 6,060 YEARS

EDMONTON



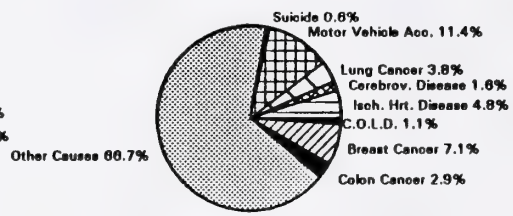
PYLL = 11,760 YEARS

CALGARY



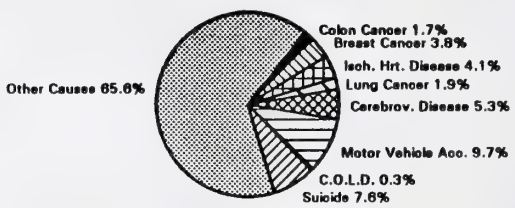
PYLL = 10,274 YEARS

SOUTH CENTRAL REGION



PYLL = 5,338 YEARS

SOUTH REGION



PYLL = 3,823 YEARS

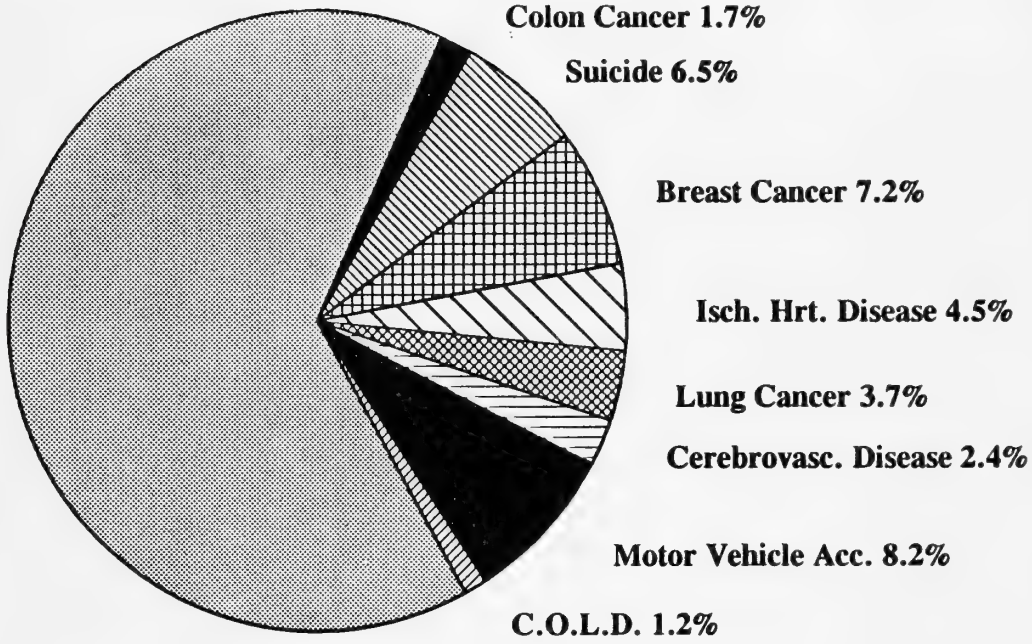
NOTE: Data and percentages may not add-up due to rounding.

CHART 4.61

POTENTIAL YEARS OF LIFE LOST (PYLL): FEMALE, 1990

Percentage Distribution by Selected Preventable Causes

ALBERTA HEALTH UNIT TOTAL



PYLL = 41,041 YEARS

APPENDICES

APPENDIX A

METHOD OF POPULATION PROJECTION

this appendix the method of health unit population projection ed in the report is described. The statistics needed consist of: the 86 health unit census (Federal) enumeration and the 1990 age d sex distributions of the Alberta population published by the berta Bureau of Statistics. It should be noted that the 1986 nsus exclude one or more incompletely enumerated Indian serves or Indian settlements. All of these statistics are available rough the Alberta Bureau of Statistics.

e method of projection simply scales the 1986 census population each health unit, by age group and by sex, according to a factor ich relates the 1986 population of Alberta to that of 1990 imates.

r a given sex let $n_{ij}(86)$ equal the number of individuals in the ith e group of the jth health unit in 1986, and let $N_i(86)$ equal the mber of individuals in the ith age group in Alberta as a whole in 86. For Chapter 1 and Chapter 2 there are eight age groups, d for Chapter 3 and Chapter 4 there are ten. The corresponding mbers for 1990 are $n_{ij}(90)$ and $N_i(90)$. The problem is to imate $n_{ij}(90)$ from $n_{ij}(86)$, $N_i(86)$ and $N_i(90)$, and the problem is ved by:

$$f_i(86,90) = \frac{N_i(90)}{N_i(86)} .$$

Then $f_i(86,90)$ scales the 1986 Alberta population in the ith age group to that of 1990 in the sense that $f_i(86,90)\ N_i(86) = N_i(90)$. The projected estimate of $n_{ij}(90)$ is then defined by

$$n_{ij}(90) = f_i(86,90)\ n_{ij}(86) .$$

Note that the same factor $f_i(86,90)$ is used for the ith age group for all health units and so the assumption has been made that there has been a uniform rate of growth (or decline) common to all health units.

APPENDIX B

TECHNIQUES OF AGE STANDARDIZATION

this section the standardization methods and statistical techniques sed in the report are described. The discussion applies to both ve birth rates and death rates of 1990. For concreteness the scussion will be phrased in terms of death rates.

s in Appendix A, let n_{ij} equal the individuals in the ith age group the jth health unit (for a given sex and year) and let d_{ij} be the rresponding number of deaths (for a given cause). Summing n_{ij} nd d_{ij} over the index j (that is, over all health units) results in the umber of individuals and deaths in the ith age group in Alberta as whole, denoted by N_i and d_j, respectively. The total number of lbertans and the total number of deaths are obtained by summing and d_i over the index i, and will be denoted by N and d, spectively.

he death rate for the ith age group and j^{th} health unit is defined :

$$r_{ij} = \frac{d_{ij}}{n_{ij}} ,$$

nd the corresponding rate for Alberta defined by

$$R_i = \frac{D_i}{N_i} ,$$

The standard error of r_{ij} may be estimated[8] by

$$SE(r_{ij}) = \frac{d_{ij}^{1/2}}{n_{ij}} ,$$

and a 95% confidence interval constructed from

$$r_{ij} \pm 1.96\ SE(r_{ij}) .$$

Formulas are similarly defined for R_i in this report.

The age standardized death rate for the jth health unit, standardized to the Alberta population, is defined by

$$sdr_j = \Sigma_i\ w_i\ r_{ij} ,$$

where;

$$w_i = \frac{N_i}{N} .$$

Consequently, sdr_j is a weighted average of age-specific death rates for the jth health unit, where the weights W_i are determined by the Alberta age distribution.

The standard error of sdr_j is defined by

$$SE(sdrj) = (\Sigma_i [w_i SE(r_{ij})]^2)^{1/2} .$$

Since age-standardization is according to the Alberta population, the age-standardized death rate for Alberta, given by

$$SDR = \Sigma_i w_i R_i ,$$

simplifies to,

$$SDR = \frac{D}{N} ,$$

which is usually referred to as the crude death rate. From an earlier formula,

$$SE(SDR) = \frac{D^{1/2}}{N} .$$

A test of the hypothesis that the standardized rate for the jth health unit differs from the Alberta rate may be based on Z - statistic,

$$Z = \frac{sdr_j - SDR}{[SE(sdr_j)^2 + SE(SDR)^2]^{1/2}} .$$

For the (one-sided) hypothesis that sdr_j is greater than SDR, the test is significant (at the 5% level) if

$$Z \geq 1.64 .$$

NOTES

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